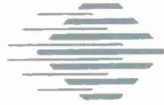


Technical Report

CMU/SEI-88-TR-2  
ESD-TR-88-003



Carnegie-Mellon University  
Software Engineering Institute

# Software Engineering Education Directory

Albert L. Johnson  
January 1988

ADA200630

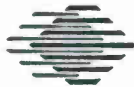


**Technical Report**

CMU/SEI-88-TR-2

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January 1988



# Software Engineering Education Directory

**Albert L. Johnson**

Software Engineering Education

Approved for public release.  
Distribution unlimited.

**Software Engineering Institute**  
Carnegie Mellon University  
Pittsburgh, Pennsylvania 15213

This technical report was prepared for the

SEI Joint Program Office  
ESD/XRS  
Hanscom AFB, MA 01731

The ideas and findings in this report should not be construed as an official DoD position. It is published in the interest of scientific and technical information exchange.

#### **Review and Approval**

This report has been reviewed and is approved for publication.

FOR THE COMMANDER



Daniel Burton  
SEI Joint Program Office

This work was sponsored by the Department of Defense.

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# SEI Software Engineering Education Directory

## Foreword

The purpose of this directory is twofold. First, it should help people make rational choices among software engineering courses and software engineering degree programs by presenting a detailed listing of offerings. It should also help maintain contact between the SEI and people at the institutions offering these courses and programs.

Dana Hausman and Suzanne Woolf were crucial to the successful completion of this edition of the directory. Their teamwork, energy, and dedication made it what it now is. Mark Ardis and Gary Ford helped edit the entries, which improved the directory's quality and value. Susan Dunkle and the Information Management staff of the SEI were helpful in developing its attractive layout. We extend our thanks to them and all others who aided this effort.

Albert Johnson  
Technical Program Administrator



# Software Engineering Institute Software Engineering Education Directory

**Abstract:** This directory provides information about software engineering courses and software engineering degree programs that are available in the United States and Canada.

## Introduction

The Software Engineering Institute (SEI) is a federally funded research and development center, sponsored by the Department of Defense and operated by Carnegie Mellon University. The mission of the SEI is to serve the public interest by establishing the standard of excellence for the art and practice of software engineering and by accelerating the transition of software technology.

This directory has been compiled to provide information that will help students and their advisors make appropriate educational choices. It contains a detailed listing of available software engineering courses and software engineering degree programs.

In future editions of this directory, we plan to provide indices and cross tabulations showing a profile of ongoing software engineering education efforts. Please contact Albert Johnson, Software Engineering Institute, Carnegie Mellon University, Pittsburgh, PA 15213 to discuss any issues related to this report.

## Directory Guide

### Compilation of Entries

Compilation of entries for this directory began in the summer of 1986 with a questionnaire mailed to schools selected from Peterson's *Graduate Programs in Engineering and Applied Sciences 1986*. We contacted schools offering graduate degrees in computer engineering, computer science, information science, software engineering, and systems engineering because they seemed most likely to offer courses involving software engineering concepts.

Of the 456 original questionnaires mailed, more than 33% were returned. A random telephone survey of people who did not return questionnaires for their universities revealed that none offered courses related to software engineering. We also included information from other reliable sources. Thus we feel that the directory is reasonably complete, although not exhaustive.

This year, we updated course entries by contacting all who gave us information last year. We sent each a revised questionnaire, including guidelines for responses. Most people responded to our update request.

We have edited the directory entries for accuracy, completeness, and relevance to software engineering. We are limited in our ability to edit responses, though, and might have included courses in the listings that do not seem to be closely related to software engineering study. However, all such courses were cited as part of a software engineering sequence in the responses that we received. In addition, please be aware that some "Textbook" entries actually contain articles, reports, or other published papers. In such cases, the papers shown are consistently used and considered to be required course reading.

Some of the entries in this edition of the directory have never been updated. We plan to drop them from the next edition.

## Changes in the Directory

Changes we adopted this year include:

- **Annual update-and-release cycle.** We are committed to update the directory continuously and to publish a new edition each year.
- **More stringent standards for courses to be included in the directory.** Courses in data structures, computer science fundamentals, programming, database management, hardware, simulation, and similar topics are included only if they are directly related (say, as co-requisites) to a sequence of software engineering courses.
- **More information.** We added fields to the course entries. One is an **Update** field showing the month and year of the last update to that course entry. We also expanded the **Systems** subfield to three: **Compilers, Computers, and Languages**. This shows the software and hardware environment associated with each course more clearly than we had previously.

## How to use this Directory

The directory entries are in alphabetical order by institution name. Each entry lists the following:

- **Degrees.** These are the degree programs which have software engineering courses as electives or requirements.
- **Contact.** This is the person you may contact for more information about the software engineering courses offered at the institution.
- **Update.** The month and year that a directory entry was last maintained appear here.
- **Courses.** Software engineering and related (co-requisite, laboratory, or advanced elective) courses are listed under this title. Each **Course** has four self-explanatory sub-titles, **Textbooks, Compilers, Computers, and Languages**.

## Notation in abbreviations

Each degree entry has one or two parts. The first part is the degree and the second part, if present, is the subject. For example, BSC, BS EE, MSE, MA CE means Bachelor of Computer Science, Bachelor of Science in Electrical Engineering, Master of Software Engineering, and Master of Arts in Computer Engineering. The abbreviations used appear on the following page.



## Degrees

AAS	Associate of Applied Science
AS	Associate of Science
B	Bachelor Degree
BA	Bachelor of Arts
BBA	Bachelor of Business Administration
BC	Bachelor of Commerce
BCS	Bachelor of Computer Science
BE	Bachelor of Engineering
BED	Bachelor of Education
BEECS	Bachelor of Elec. Eng. and Comp. Sci.
BM	Bachelor of Mathematics
BS	Bachelor of Science
BSE	Bachelor in Science and Engineering
BSSE	Bachelor of Systems Science and Eng.
BO	Bachelor Degree (Other)
M	Master Degree
MA	Master of Arts
MCS	Master of Computer Science
ME	Master of Engineering
MED	Master of Education
MEM	Master of Engineering Management
MM	Master of Mathematics
MS	Master of Science
MSAT	Master of Applied Science and Tech.
MSDD	Master of Software Design and Dev.
MSE	Master of Software Engineering
MSSM	Master of Systems Science and Math.
MO	Master Degree (Other)
DENG	Doctor of Engineering
PHD	Doctor of Philosophy
PHDAT	Doctor of Applied Science and Tech.
SCD	Doctor of Science
O	Other

## Subjects

AI	Artificial Intelligence
AT	Advanced Technology
BA	Business Administration
CAD	Computer Aided Design Tech.
CE	Computer Engineering
CET	Computer Electronics Tech.
CIS	Computer and Information Sci.
	Computer Information Systems
CM	Computer Management
CP	Computer Programming
CS	Computer Science
	Computing Science
CSE	Computer Science Engineering
	Computer and Systems Eng.
	Computer Systems Engineering
CSED	Computer Science Education
CT	Computer Technologies
E	Engineering
EE	Electrical Engineering
IE	Industrial Engineering
	Information Engineering
IS	Information Science
	Information Systems
ISE	Industrial and Systems Eng.
M	Mathematics
	Mathematical Sciences
MIS	Management Information Sys.
SE	Software Engineering
SSM	Systems Science and Eng.
SYSE	Systems Engineering
SYSS	Systems Science
TCS	Teaching of Computer Science
O	Other

A complete **Courses** entry has six fields on the first line, arranged in order of course name, course number, level, prerequisite, status, and frequency. The codes as used in the corresponding fields are:

Level:

U Undergraduate  
G Graduate  
B Both  
O Other  
X No information supplied

Prerequisite:

P The course has at least one prerequisite  
N None  
X No information supplied

Status:

R Required  
E Elective  
B Both  
O Other  
X No information supplied

Frequency:

B Biennial  
Y Once a year  
T Once a term  
A Alternate terms  
D On demand  
O Other  
X No information supplied

Most **Courses** entries also have fields describing the textbooks, compilers, computers, and languages used. Here are examples:

**Introduction to Software Engineering with Ada** MATH 555 G N R T 5

Textbooks: *Ada Primer*  
by SofTech, Inc.  
*Reference Manual for the Ada Programming Language*  
ANSI/MIL-STD-1815A  
*Software Components with Ada: Structures, Tools, and Subsystems*  
by Booch, Grady  
*Software Engineering with Ada*  
by Booch, Grady

Compilers: Verdex Ada

Computers: Vax 11/785 Unix

Languages: Ada

**Software Project Management and Development I** CSC 460 U P E T 8

Textbooks: *Software Engineering: A Practitioner's Approach*  
by Pressman, Roger S.

Compilers: Pascal

Computers: Vax (VMS or Unix)

Languages: Pascal

# Software Engineering Institute

## Software Engineering Education Directory

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**Acadia University** Jodrey School of Computer Science  
Department of Computer Science  
Wolfville, NS, B0P 1X0, Canada

**Degrees:** BCS, MS

**Contact:** Dr. Oliver, Leslie H.  
Director  
(902) 542-2201 x331

**Update:** September 1987

**Courses:** **Software Engineering Comp 3653 U P B Y 3**  
**Textbooks:** *Applying Software Engineering Principles*  
by Maria  
**Compilers:** MASM  
Turbo Pascal  
**Computers:** PC-Compatible  
Vax  
**Languages:** C  
Pascal

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**Air Force Institute of Technology** School of Engineering  
Department of Computer Engineering  
Wright-Patterson AFB, OH, 45433-6583, United States

**Degrees:** MS, MS EE, PHD

**Contact:** Dr. Howatt, James W.  
Assistant Professor of Computer Systems  
(513) 255-6913

**Update:** June 1987

**Courses:** **Software Project Management EENG543 G N R A 1**  
**Textbooks:** *Principles of Productive Software Management*  
by Evans, Piazza, and Dolkas  
**Computers:** Vax 11/785 Unix

**Software Engineering EENG593 G P R T 7**  
**Textbooks:** *Software Engineering: A Practitioner's Approach*  
by Pressman, Roger S.  
**Computers:** Vax 11/785 Unix

**Software Systems Programming Laboratory EENG690 G P R A 5**  
**Compilers:** C  
**Computers:** LAN connecting PDP 11/70 processors  
**Languages:** C

**Advanced Software Engineering Laboratory EENG696 G P E Y 1**  
**Compilers:** C  
**Languages:** C

**Advanced Software Engineering EENG793 G P E Y 5**

**Introduction to Software Engineering with Ada MATH 555 G N R T 5**

**Textbooks:** *Ada Primer*  
by SofTech, Inc.  
*Reference Manual for the Ada Programming Language*  
ANSI/MIL-STD-1815A  
*Software Components with Ada: Structures, Tools, and Subsystems*  
by Booch, Grady  
*Software Engineering with Ada*  
by Booch, Grady

**Compilers:** Verdix Ada

**Computers:** Vax 11/785 Unix

**Languages:** Ada

**Advanced Software Environments MATH755 G P E Y 3**

**Textbooks:** *Programming with APSE Software Tools*  
by Freedman  
*Research Directions in Software Technology*  
by Wegner, Peter

**Computers:** Vax 11/785 Unix

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**Arizona State University** College of Engineering and Applied Science  
Department of Computer Science  
Tempe, AZ, 85287, United States

**Degrees:** BS, MS, PHD

**Contact:** Dr. Collofello, James S.  
Associate Professor of Computer Science  
(602) 965-3190

**Update:** November 1987

**Courses: Software Project Management and Development I CSC 460 U P E T 8**

**Textbooks:** *Software Engineering: A Practitioner's Approach*  
by Pressman, Roger S.

**Compilers:** Pascal

**Computers:** Vax (VMS or Unix)

**Languages:** Pascal

**Software Project Management and Development II CSC 560 G P E T 5**

**Compilers:** Pascal

**Computers:** Vax (VMS or Unix)

**Languages:** Pascal

**Software Requirements CSC 563 G P E Y 5**

**Compilers:** Pascal

**Computers:** Vax (VMS or Unix)

**Languages:** Pascal

**Software Design CSC 564 G P E Y 5**

**Compilers:** Pascal

**Computers:** Vax (VMS or Unix)

**Languages:** Pascal

**Software Testing CSC 565 G P E Y 5**

**Compilers:** Pascal

**Computers:** Vax (VMS or Unix)

**Languages:** Pascal

**Software Maintenance CSC 566 G P E Y 5**

Compilers: Pascal  
Computers: Vax (VMS or Unix)  
Languages: Pascal

**Special Topics in Software Engineering CSC 590 G P E D 5**

Compilers: Pascal  
Computers: Vax (VMS or Unix)  
Languages: Pascal

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**Auburn University School of Engineering**  
Department of Computer Science and Engineering  
Auburn University, AL, 36849, United States

**Degrees:** BS, MS, PHD

**Contact:** Dr. Cross, James H.  
Head  
(205) 826-4330

**Update:** May 1987

**Courses:** Introduction to Software Engineering CSE 305 U N R T 3  
Textbooks: *Software Engineering: A Practitioner's Approach*  
by Pressman, Roger S.  
Computers: IBM PC  
TI Pro  
Languages: Excelerator (InTech)

**Software Engineering I CSE 522 B P E Y 3**

Textbooks: *Software Reliability: Principles and Practices*  
by Myers, Glenford J.  
Compilers: Vax  
Computers: Vax  
Languages: Pascal

**Software Engineering II CSE 622 G P E Y 3**

Textbooks: *Input Output Requirements Language (IORL) Reference Manual*  
by Teledyne Brown Engineering  
Compilers: IORL  
Computers: Apollo  
Languages: IORL

---

**Ball State University College of Sciences and Humanities**  
Department of Computer Science  
Program in Computer Science  
Muncie, IN, 47306, United States

**Degrees:** BS, MA, MS

**Contact:** Prof. Brown, W. F.  
Professor  
(317) 285-8644

**Update:** May 1987

**Courses: Software Engineering I (Systems Analysis) 497 U P R O 10**

Textbooks: *Standards Manual for Software Engineering I*  
by Brown, W.F. (editor)  
*Structured Analysis and System Specification*  
by DeMarco, Tom  
*Systems Analysis - Definition, Process, and Design*  
by Semprevivo, Philip

Compilers: C  
COBOL  
Fortran  
Pascal

Computers: Dept Vax 785 (Unix)  
Vax cluster (three 785, one 86500)

Languages: C  
COBOL  
Fortran  
Pascal

**Software Engineering II (Design and Development) 498 U P R O 4**

Textbooks: *Standards Manual for Software Engineering II*  
by Brown, W.F. (editor)  
*Structured Analysis and System Specification*  
by DeMarco, Tom  
*Structured Design*  
by Yourdon, Edward and Constantine, Larry L.

Compilers: C  
COBOL  
Fortran  
Pascal

Computers: Dept Vax 785 (Unix)  
Vax cluster (three 785, one 86500)

Languages: C  
COBOL  
Fortran  
Pascal

**Principles of Software Engineering 580 G N R Y 3**

Textbooks: *Software Engineering Concepts*  
by Fairley, Richard E.

Compilers: Ada  
C

Computers: Dept Vax 785 (Unix)  
Vax cluster

Languages: Ada  
C

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**Boston University School of Engineering**

Department of Electrical, Computer, and Systems Engineering  
Programs in Systems Engineering, Computer Engineering, Electrical Engineering  
Boston, MA, 02215, United States

**Degrees:** MS SYSE

**Contact:** Prof. Vidale, Richard F.  
Professor  
(617) 353-2808

**Update:** December 1987

**Courses:** Software Systems Design SC 511 G N R Y 3



Compilers: Digital Corp. and Vax Ada  
Computers: Vax 785  
              Encore  
Languages: Ada

**Applications of Formal Methods SC 517 G N R Y 1**

Compilers: Digital Corp. and Vax Ada  
Computers: Vax 785  
              Encore  
Languages: Ada

**Software Project Management SC 518 G P R Y 1**

Compilers: Digital Corp. and Vax Ada  
Computers: Vax 785  
              Encore  
Languages: Ada

**The Computer as a System Component SC 714 G P R Y 3**

Compilers: Digital Corp. and Vax Ada  
Computers: Vax 785  
              Encore  
Languages: Ada

**Software Engineering Project SC 912 G P R Y 3**

Compilers: Digital Corp. and Vax Ada  
Computers: Vax 785  
              Encore

Languages: Ada

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**Bowling Green State University School of Arts and Sciences**  
Department of Computer Science  
Bowling Green, OH, 43402, United States

**Degrees:** BS CS, MS CS

**Contact:** Dr. Mynatt, Barbee  
Associate Professor  
(419) 372-2339

**Update:** November 1987

**Courses:** **Software Development 464 U P E Y 7**  
Textbooks: *Software Engineering: A Practitioner's Approach*  
              by Pressman, Roger S.  
Computers: IBM PC  
              Macintosh  
Languages: Pascal

**Software Engineering 564 G P E Y 4**  
Languages: SAS (Statistical Analysis System)

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**Bradley University College of Liberal Arts and Sciences**  
Department of Computer Science  
Program in Comp. Sci., Comp. Info. Sys. (undergraduate), Comp. Sci. (graduate)  
Peoria, IL, 61625, United States

**Degrees:** BS, MS

**Contact:** Prof. Fendrich, John  
Chairman  
(309) 677-2460

**Update:** July 1987

**Courses: Computers and Programming with Pascal I CS 106 U N R O 7**

**Textbooks:** *Building Pascal Programs*  
by Reges, Stuart  
**Compilers:** Minnesota Pascal  
**Computers:** Cyber 830  
**Languages:** Pascal

**Systems Analysis and Design (System Specification and Development) CS 403 U P E O 7**

**Textbooks:** *Structured Analysis and System Specification*  
by DeMarco, Tom  
**Computers:** Personal computers  
**Languages:** Text processing system  
Word processing system

**Systems Analysis and Design (System Specification and Development) CS 608 G P E O 7**

**Textbooks:** *Structured Analysis and System Specification*  
by DeMarco, Tom  
**Computers:** Personal computers  
**Languages:** Text processing system  
Word processing system

**Programming Methodology CS 503 B P E O 5**

**Textbooks:** *Discipline of Programming*  
by Dijkstra, Edsger Wybe  
*The Science of Programming*  
by Gries, David

**Introduction to Software Engineering CS 406 U P E Y 1**

**Structured Programming using C CS 221 U P E O 4**

**Textbooks:** *Efficient C*  
by Plum, Thomas and Brodie, Jim  
*Learning to Program in C*  
by Plum, Thomas  
*Reliable Data Structures in C*  
by Plum, Thomas  
**Compilers:** C  
**Computers:** AT&T 3B series  
Vax  
**Languages:** C

**Software Engineering I CS 615 G P E Y 4**

**Textbooks:** *Software Engineering Metrics and Models*  
by Conte, Samuel Daniel, Dunsmore, H.E., and Shen, V.Y.  
**Compilers:** SPSS  
**Computers:** Cyber  
**Languages:** SPSS

**Software Engineering II CS 616 G P E Y 4**

**Textbooks:** *Handbook of Walkthroughs, Inspections, and Technical Reviews*  
by Freedman, Daniel P. and Weinberg, Gerald M.  
*Software Testing Techniques*  
by Beizer, Boris



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**Brigham Young University** College of Math and Applied Sciences  
Department of Computer Science  
Provo, UT, 84602, United States

**Degrees:** BS CS, MS CS, PHD CS

**Contact:** Prof. Woodfield, Scott N.  
Associate Professor  
(801) 378-2915

**Update:** November 1987

**Courses:** **Introduction to Software Design CS 327 U P R O 9**

**Textbooks:** *Composite Structure Design*  
by Myers, Glenford J.  
*Software Engineering*  
by Sommerville, Ian

**Computers:** Unix (Vax, Sun Microsystems, 3B2)

**Languages:** Ada  
Eiffel

**Software Testing CS 429 U P E O 9**

**Textbooks:** *Software Testing Techniques*  
by Beizer, Boris

**Systems Analysis CS 425 U P E O 9**

**Textbooks:** *Structured Analysis and System Specification*  
by DeMarco, Tom  
*Structured Systems Analysis: Tools and Techniques*  
by Gane, Chris and Sarson, Trish

**Software Development and Maintenance CS 525 G P E O 3**

**Textbooks:** *IEEE Tutorial on Software Design Techniques*  
by Freeman, Peter and Wasserman, Anthony I.

**Software Management and Quality Assurance CS 527 G P E O 3**

**Textbooks:** *IEEE Tutorial: Software Configuration Management*  
by Bryan, William, Chadbourne, Christopher, and Siegel, Stan  
*Software Cost Estimation and Life-Cycle Control*  
by Putnam, Lawrence H.  
*Software Quality Assurance: A Practical Approach*  
by Chow, Tsun S.

**Theory of Software Engineering CS 627 G P E O 3**

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**California Polytechnic State University** School of Engineering  
Department of Computer Science  
San Luis Obispo, CA, 93407, United States

**Degrees:** BS CS, MS CS

**Contact:** Prof. Beug, Jim  
Professor  
(805) 546-2824

**Update:** May 1987

**Courses:** **Software Engineering I** CSC 440 U P R O 8  
**Textbooks:** *Software Engineering: A Practitioner's Approach*  
by Pressman, Roger S.

**Software Engineering II** CSC 441 U P R O  
**Textbooks:** *Software Engineering: A Practitioner's Approach*  
by Pressman, Roger S.  
**Computers:** Mac II  
Xerox 8010  
**Languages:** Mesa  
Modula-2

**Software Tools** CSC 340 U P E O 4  
**Computers:** Pyramid Unix  
**Languages:** C  
Mesa

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**California State Polytechnic University** School of Science  
Department of Computer Science  
Pomona, CA, 91768-4034, United States

**Degrees:** BCS, MCS

**Contact:** Dr. Hillam, Bruce P.  
Chairman  
(714) 869-3440

**Update:** October 1987

**Courses:** **Advanced Programming** CS 340 U P R T 1  
**Textbooks:** *Software Development in Pascal*  
by Sahni, Sartaj  
**Compilers:** Pascal  
**Computers:** IBM XT  
**Languages:** Pascal

**Software Engineering** CS 360 U P E O 1  
**Textbooks:** *Software Engineering with Ada*  
by Booch, Grady  
**Compilers:** Irvine Compiler Corporation, Ada  
**Computers:** Integrated Solution workstation  
**Languages:** Ada

---

**California State University, Chico** College of Engineering, Computer Science and Technology  
Department of Computer Science  
Chico, CA, 95929, United States

**Degrees:** BS, MS

**Contact:** Dr. Madrigal, Orlando S.  
Professor and Chairman  
(916) 895-6442

**Update:** November 1987

**Courses: Software Engineering CSCI 210 U P E T 2**

Textbooks: *Software Engineering Concepts*  
by Fairley, Richard E.  
*The Mythical Man-Month: Essays on Software Engineering*  
by Brooks, Frederick Phillips

**Systems Design CSCI 270 U P R T 10**

Textbooks: *Systems Analysis and Design: Traditional and Advanced Concepts and Techniques*  
by Wetherbe, James C.

**System Design Theory CSCI 370 G P E Y 10**

Textbooks: *Controlling Software Projects: Management Measurement and Estimation*  
by DeMarco, Tom  
*IEEE Tutorial: Software Management*  
by Reifer, Donald

**Advanced Software Practices CSCI 251 U N E T 10**

Textbooks: *Programming in Ada*  
by Barnes, John Gilbert Presslie

Compilers: Ada

Computers: IBM AT

Prime 9600

Languages: Ada

**Software Metrics and Control CSCI 310 G P E O 2**

**Software Design CSCI 311 G P E O 2**

Textbooks: *A Technique for Software Module Specification with Examples*  
by Parnas, D.L.  
*Chief Programmer Team Management of Production Programming*  
by Baker, F.T.  
*Concise Notes on Software Engineering*  
by DeMarco, Tom  
*Data Design in Structured Systems Analysis*  
by Gane, C.P.  
*Fundamentals of Design*  
by Freeman, Peter  
*Go To Statement Considered Harmful*  
by Dijkstra, E.  
*Programming Considered as a Human Activity*  
by Dijkstra, E.  
*The Humble Programmer*  
by Dijkstra, E.  
*The Mythical Man-Month: Essays on Software Engineering*  
by Brooks, Frederick Phillips

**Software Analysis and Testing CSCI 312 G P E O 10**

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California State University, Northridge School of Engineering and Computer Science  
Department of Computer Science  
Northridge, CA, 91330, United States

Degrees: BS, MS

Contact: Dr. Modesitt, Ken  
Professor  
(818) 885-3398

Update: May 1987

**Courses: Program Design Techniques CS 380 U P R T 8**

Textbooks: *Software Design and Development*  
by Gilbert, Philip  
*Structured Analysis and System Specification*  
by DeMarco, Tom

Compilers: Pascal (Turbo, PR1ME)

Computers: AT&T 3B5  
CDC Cyber 170/750  
DEC PDP 11/44  
IBM XT  
Prime

Languages: Pascal

**Software System Development and Laboratory CS 480 U P E T 10**

Textbooks: *Software Design and Development*  
by Gilbert, Philip

Compilers: Pascal (Turbo)

Computers: AT&T 3B5  
CDC Cyber 170/750  
DEC PDP 11/44  
IBM XT  
Prime

Languages: Pascal

**Software Engineering CS 580 G N R Y**

Textbooks: *Software Engineering: Design, Reliability, and Management*  
by Shooman, Martin L.

Compilers: Pascal

Computers: AT&T 3B5  
CDC Cyber 170/750  
DEC PDP 11/44  
IBM XT  
Prime

Languages: Analyst Toolkit (Yourdon)  
Design Aid (Nastec)  
Excelsator (Intech)  
Pro Mod

**Software Engineering Economics CS 494 SEE B P E Y 3**

Textbooks: *Software Engineering Economics*  
by Boehm, Barry W.

**Software Engineering with Ada CS 496 ADA B P E Y 2**

Textbooks: *Software Engineering with Ada*  
by Booch, Grady

Compilers: Meridian  
NYU-Ada/Ed-C  
Vax Ada  
Verdix Ada

Languages: Ada

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California State University, Sacramento School of Engineering and Computer Science  
Department of Computer Science  
Concentration in Software Engineering  
Sacramento, CA, 95819, United States

Degrees: BS CS, MS CS

**Contact:** Dr. Thayer, Richard H.  
Professor in Computer Science  
(916) 278-6834

**Update:** September 1987

**Courses:** **Computer Software Engineering CSC 131 U P R T 4**

**Textbooks:** *Software Engineering with System Analysis and Design*  
by Steward, Donald V.

**Computers:** IBM PCs

**Languages:** CASE tools

**Computer System Analysis CSC 170 U P E T 12**

**Textbooks:** *Introduction to System Analysis and Design: A Structured Design*  
by Kendall, Penny A.

**Computers:** IBM PCs

**Languages:** CASE tools

**Software Engineering Project Management CSC 171 U P E O 10**

**Textbooks:** *Practical Project Management*  
by Page-Jones, Meilir  
*The Mythical Man-Month: Essays on Software Engineering*  
by Brooks, Frederick Phillips

**Documentation Design CSC 178 U N E T 3**

**Textbooks:** *Writing Handbook for Computer Professionals*  
by Skees, William D.

**Computers:** IBM PCs

**Languages:** Word processors

**Senior Project: Part I CSC 190 U P R T 16**

**Textbooks:** *Guide for Senior Project Documents*  
by Thayer, Richard H.

**Senior Project: Part II CSC 191 U P R T 6**

**Textbooks:** *Guide for Senior Project Documents*  
by Thayer, Richard H.

**Software Testing and Quality Assurance, Fall 1986 CSC 196D U P E Y 1**

**Textbooks:** *Software Testing and Quality Assurance*  
by Beizer, Boris

**Foundation of Software Engineering CSC 203 G N O Y 4**

**Textbooks:** *Software Engineering: A Practitioner's Approach*  
by Pressman, Roger S.

**Software Requirement Analysis and Design CSC 210 G P E O 10**

**Textbooks:** *An Integrated Approach to Software Development*  
by Abbott, J.R.

**Computers:** IBM PCs

**Languages:** CASE tools

**Software Engineering Economics CSC 231 G P E O 14**

**Textbooks:** *Software Engineering Economics*  
by Boehm, Barry W.

**Computers:** IBM PCs

**Languages:** WICOMO or other PC based, cost analysis tool

**Advanced Computer System Analysis CSC 240 G P E O 10**

**Textbooks:** *Structured Development for Real-Time Systems*  
by Ward, P.T. and Mellor, S.J.  
*System Analysis and Management: Structure, Strategy and Design*  
by Steward, Donald V.

**Introduction to System Engineering Engr 130 U P E Y 2**  
**Textbooks:** *Systems Engineering: Methodology and Applications*  
by Sage, Andrew P. (ed.)

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**Carleton University Faculty of Engineering**  
Department of Systems and Computer Engineering  
Programs in Computer Systems Engineering and Electrical Engineering  
Ottawa, ON, K1S 5B6, Canada

**Degrees:** BE, ME, MCS, MS, PHD

**Contact:** Prof. Bowen, B. A.  
Chairman  
(613) 564-2793

**Update:** None

**Courses:** **Software Engineering 94.480 U N X Y**  
**Textbooks:** *Software Tools in Pascal*  
by Kernighan, Brian and Plauger, P.J.  
*System Design with Ada*  
by Buhr, R.J.A.

**Digital Systems Engineering 94.533 G N X T**

**System Design with Ada 94.531 G N X T**

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**Carnegie Mellon University**  
Department of Computer Science  
Pittsburgh, PA, 15213, United States

**Degrees:** PHD CS

**Contact:** Dr. Habermann, A. Nico  
Professor and Department Head  
(412) 268-2592

**Update:** December 1987

**Courses:** **Software Engineering 15-413 U P E Y 15**  
**Textbooks:** *Software Engineering Concepts*  
by Fairley, Richard E.  
**Compilers:** Ada  
C  
Lisp  
**Computers:** Tops 20  
Unix on Vax  
**Languages:** Ada  
C  
Lisp

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**Central Connecticut State University School of Arts and Science**  
Department of Mathematics and Computer Science  
Program in Computer Science  
New Britain, CT, 06050, United States

**Degrees:** BS

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**Contact:** Prof. Miller, George B.  
Chairman, Mathematics and Computer Science  
(203) 827-7374

**Update:** November 1987

**Courses:** **Introduction to Software Engineering CS 410 U P E Y 4**  
Textbooks: *Software Engineering with MODULA-2 and Ada*  
by Wiener, Richard S., and Sincovec, Richard F.  
Computers: Vax 8600  
Languages: Pascal

**Programming Languages CS 464 U P E Y 1**  
Computers: Vax 8600  
Languages: Pascal

**Software Engineering II CS 514 G P R Y 1**  
Languages: Pascal

**Computer System Software and Architecture I CS 516 G P R Y 1**  
Languages: Pascal

**Computer System Software and Architecture II CS 517 G P R Y 1**  
Languages: Pascal

**On Line, Real Time, and Time Sharing Systems CS 257 G P E Y 1**  
Languages: Pascal

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**Clarkson University School of Science**  
Department of Mathematics and Computer Science  
Potsdam, NY, 13676, United States

**Degrees:** BS, MS, PHD

**Contact:** Dr. Fokas, A. S.  
Chairman  
(315) 268-2395

**Update:** November 1987

**Courses:** **Systems Programming MA 443 U P E Y 10**  
Textbooks: *Systems Programming*  
by Donovan, John J.  
Computers: DEC Pro  
Gould  
IBM mainframe  
Z-100 MS DOS  
Zenith 200

**Software Design and Development MA 450 U N E Y 5**  
Textbooks: *Software Engineering Concepts*  
by Fairley, Richard E.  
Computers: DEC Pro  
Gould  
IBM mainframe  
Z-100 MS DOS  
Zenith 200

**Software Tools MA 250 U P R Y 1**

Compilers: Turbo C  
Computers: DEC Pro  
Gould  
IBM mainframe  
Z-100  
Zenith 200  
Languages: C  
Pascal

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**Clemson University** College of Sciences  
Department of Computer Science  
Clemson, SC, 29634-1906, United States

**Degrees:** BS, BS CIS, MS, PHD CS

**Contact:** Dr. Turner, A. J.  
Head  
(803) 656-3444

**Update:** October 1987

**Courses:** **Software Development Methodology** CpSc 472/672 B P B O 5

**Textbooks:** *Software Engineering: A Practitioner's Approach*  
by Pressman, Roger S.  
*Software Engineering Concepts*  
by Fairley, Richard E.

**Compilers:** Ultrix C  
**Computers:** DEC Vax 11/780 running Ultrix  
**Languages:** C

**Design and Programming Methodology** CpSc 872 G P E Y 2

**Textbooks:** *Software Specification Techniques*  
by Gehani, Narain and McGettrick, Andrew D.

**Languages:** Various specification languages

**Software Verification, Validation, and Measurement** CpSc 873 G P E O

**Textbooks:** *IEEE Tutorial: Software Testing and Validation Techniques*  
by Miller, Edward and Howden, William E.

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**Cleveland State University** James J. Nance College of Business Administration  
Department of Computer and Information Science  
Cleveland, OH, 44115, United States

**Degrees:** BS CIS, MS CIS

**Contact:** Prof. Heines, Thomas S.  
Chairman  
(216) 687-4760

**Update:** November 1987

**Courses:** **Structured Systems Analysis** CIS 433 U P E O 5

**Textbooks:** *Structured Analysis Methods for Computer Information Systems*  
by Teague, Lavette C. and Pidgeon, Christopher

**Structured Systems Design** CIS 434 U P E O 5

**Textbooks:** *The Practical Guide to Structured Systems Design*  
by Page-Jones, Meilir

**Computers:** IBM 3081



Languages: IBM PC  
COBOL  
PSL/PSA  
Structured Architect  
dBase III

**Software Engineering CIS 620 G P R O 5**

Textbooks: *System-370 Job-Control Language*  
by Brown, Gary D.  
*The C Programming Language*  
by Kernighan, Brian and Ritchie, Dennis  
Computers: IBM 3081  
Vax 11/750

**Systems Analysis and Design CIS 634 G P E O 5**

Textbooks: *The Practical Guide to Structured Systems Design*  
by Page-Jones, Meilir  
Computers: IBM 3081  
IBM PC  
Languages: COBOL  
PSL/PSA  
Structured Architect  
dBase III

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College of William and Mary School of Arts and Sciences  
Department of Computer Science  
Williamsburg, VA, 23185, United States

Degrees: BS CS, MS CS, PHD CS

Contact: Prof. Noonan, Robert E.  
Professor  
(804) 253-4748

Update: May 1987

**Courses: Software Tools and Environment CS 435, 535 B P E Y 4**

Textbooks: *Software Tools in Pascal*  
by Kernighan, Brian and Plauger, P.J.  
Compilers: Sheffield Pascal  
Computers: Primes  
Languages: Pascal

**Software Engineering CS 555 G P E O 10**

Textbooks: *Software Engineering: A Practitioner's Approach*  
by Pressman, Roger S.  
Compilers: Sheffield Pascal  
Computers: Primes  
Languages: Pascal

**Human Factors CS 575 G P E B 4**

Textbooks: *Software Psychology: Human Factors in Computer and Information Systems*  
by Shneiderman, Ben  
Compilers: Sheffield Pascal  
Computers: Primes  
Languages: Pascal

**Theory of Program Correctness CS 552 G P B O 4**

Textbooks: *The Science of Programming*  
by Gries, David  
Compilers: Sheffield Pascal

Computers: Primes  
Languages: Pascal

**Program Testing CS 605 G P E B 4**

Compilers: Sheffield Pascal  
Computers: Primes  
Languages: Pascal

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**Columbia University** School of Engineering and Applied Sciences  
Department of Computer Science  
New York, NY, 10027, United States

Degrees: BA, BS, MS, PHD

Contact: Dr. Kaiser, Gail E.  
Assistant Professor  
(212) 280-3856

Update: None

Courses: **Software Design Laboratory W3152 U P R Y**  
Computers: Unix

**Software Engineering W4156 B P B Y**

**Programming Languages and Translators 1 W4115 B P R Y**

**Programming Environments and Software Tools E6123 G P E X**

**Special Projects in Computer Science W3998, W4995, others B N E D**  
Computers: Tops 20  
Unix

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**Concordia University** Faculty of Engineering and Computer Science  
Department of Computer Science  
Montreal, H3G 1M8, Canada

Degrees: BCS, MCS, PHD

Contact: Prof. Goyal, Pankaj  
Associate Professor  
(514) 848-3018

Update: June 1987

Courses: **Software Engineering COMP 354 U P R T 1**  
Textbooks: *Software Engineering Concepts*  
by Fairley, Richard E.  
Compilers: Sun-C  
Sun-Pascal  
Computers: Sun workstations (network)

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**Cornell University** School of Engineering  
Department of Computer Science  
Ithaca, NY, 14853, United States

Degrees: BS, ME, PHD

**Contact:** Prof. Kozen, Dexter  
Graduate Fields Representative for Computer Science  
(607) 255-8593

**Update:** October 1987

**Courses:** **Introduction to Computer Programming 100 U N R T 22**  
Textbooks: *Pascal: Introduction*  
by Nance, Douglas W.  
Compilers: Lightspeed Pascal System  
Computers: Macintosh  
Languages: Pascal

**Computers and Programming 211 U P R T 22**  
Compilers: Mac Pascal  
Computers: Macintosh  
Languages: Guarded commands  
Lisp  
Pascal

**Computer Organization 314 U P R T 22**  
Textbooks: *M68000 Instruction Manual*  
*Structured Computer Organization*  
by Tanenbaum, Andrew  
Compilers: Lightspeed Pascal  
Computers: Macintosh  
Languages: Assembler  
Pascal

**Intro. Database Management Systems 432 B P E Y 5**  
Textbooks: *An Introduction to Database Systems*  
by Date, C.J.  
*The C Programming Language*  
by Kernighan, Brian and Ritchie, Dennis  
Compilers: CC  
Computers: Vax  
Languages: C  
Pascal

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**Dartmouth College**  
Department of Mathematics and Computer Science  
Hanover, NH, 03755, United States

**Degrees:** BA, MS, PHD

**Contact:** Prof. Drysdale, Scot  
Associate Professor  
(603) 646-2101

**Update:** November 1987

**Courses:** **Software Design and Implementation CS 23 U P R O 1**  
Textbooks: *Programming Pearls*  
by Bentley, Jon Louis  
*Software Engineering Concepts*  
by Fairley, Richard E.

Compilers: C  
            Lightspeed Pascal  
Computers: Macintosh  
            Vax 11/785  
Languages: C  
            Pascal

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**DePaul University** School of Liberal Arts and Sciences  
Department of Computer Science and Information Systems  
Chicago, IL, 60604, United States

Degrees: BS, MS

Contact: Dr. Epp, Helmut P.  
Department Chairman  
(312) 341-8366

Update: May 1987

Courses: **Software Projects 394 U P R O 5**  
Compilers: DEC  
Computers: Vax 11/780  
Languages: C

**Software Engineering 365 U P R O 2**

Textbooks: *Software Engineering*  
by Sommerville, Ian

Compilers: TeleSoft  
Computers: Vax 11/780  
Languages: Ada

**Software Measurement and Quality 366 U P E Y 1**

Textbooks: *Software Engineering Metrics and Models*  
by Conte, Samuel Daniel, Dunsmore, H.E., and Shen, V.Y.

**Software Measurement and Quality 466 G P E Y 1**

Textbooks: *Software Engineering Metrics and Models*  
by Conte, Samuel Daniel, Dunsmore, H.E., and Shen, V.Y.

**Programming In Ada 230 U N E Y 2**

Textbooks: *Software Engineering with Ada*  
by Booch, Grady

Compilers: TeleSoft  
Computers: Vax 11/780  
Languages: Ada

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**Drexel University** College of Science  
Department of Mathematics and Computer Science  
Philadelphia, PA, 19104, United States

Degrees: BS CS, MS CS, PHD CS

Contact: Dr. Popyack, Jeffrey L.  
Program Coordinator for Computer Science  
(215) 895-2668

Update: May 1987

**Courses: Software Engineering I N677 U P R Y 5**

Textbooks: *Software Engineering*  
by Sommerville, Ian  
*The Mythical Man-Month: Essays on Software Engineering*  
by Brooks, Frederick Phillips

Compilers: Prime C  
Sheffield Pascal  
Computers: Prime 9955  
Languages: C  
Pascal

**Software Engineering II N678 U P E Y 5**

Textbooks: *Software Engineering*  
by Sommerville, Ian  
*The Mythical Man-Month: Essays on Software Engineering*  
by Brooks, Frederick Phillips

Compilers: Prime C  
Sheffield Pascal  
Computers: Apple Macintosh  
IBM PC/XT  
Prime 9955  
Vax 11/780  
Languages: C  
Pascal

**Software Engineering I M745 G P E B 5**

Textbooks: *Software Engineering: A Practitioner's Approach*  
by Pressman, Roger S.

Compilers: Prime C  
Sheffield Pascal  
Computers: Prime 9955  
Languages: C  
Pascal

**Software Engineering II M746 G P E B 5**

Textbooks: *Software Engineering: A Practitioner's Approach*  
by Pressman, Roger S.

Compilers: Prime C  
Sheffield Pascal  
Computers: Prime 9955  
Languages: C  
Pascal

**Topics In Software Engineering M748 G P E D 5**

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East Tennessee State University School of Applied Science and Technology  
Department of Computer and Information Sciences  
Programs in Computer Science and Information Science  
Johnson City, TN, 37614, United States

Degrees: BS, MS

Contact: Dr. Bailes, Gordon L.  
Chairman  
(615) 929-5332

Update: May 1987

**Courses: Software Engineering 222-3250 U P R T 7**

Textbooks: *Systems Analysis and Design Methods*  
by Whitten, Bentley, and Ho  
Compilers: Ada-Telesoft  
IBM PC  
Computers: IBM 4341 under CMS  
Languages: Ada  
COBOL  
PL/I

**Information Analysis 222-5200 G P B Y 1**

Textbooks: *Software Engineering: A Practitioner's Approach*  
by Pressman, Roger S.  
*Structured Systems Analysis: Tools and Techniques*  
by Gane, Chris and Sarson, Trish  
Computers: TI PC  
Languages: Prokit Analyst

**Systems Design 222-5300 G P B Y 1**

Textbooks: *Software Engineering: A Practitioner's Approach*  
by Pressman, Roger S.  
*Software Engineering with Ada*  
by Booch, Grady  
Compilers: Janus Ada under MS-DOS  
Telesoft Ada under VM/CMS  
Computers: IBM 4341  
TI PC  
Vax  
Languages: Ada  
Prokit Analyst

**Advanced Techniques in Ada 222-3310 U P E Y 10**

Compilers: Ada-Telesoft  
Computers: IBM 4341  
Languages: Ada

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**Florida Atlantic University**

Department of Computer Science  
Boca Raton, FL, 33431, United States

Degrees: BS, MS, MCS

Contact: Dr. Coulter, Neal S.  
Chairman  
(305) 393-3180

Update: June 1987

**Courses: Software Engineering CIS 6610 G N R O 8**

Textbooks: *Software Engineering Concepts*  
by Fairley, Richard E.  
Compilers: Ada  
C  
Pascal  
Computers: Harris 800  
PCs  
Vax 8800  
Languages: Ada

**Principles of Software Design CIS 3611 U P R O 1**

Compilers: Ada  
Computers: AT&T 3B2  
Vax 8800  
Languages: Ada

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Indiana University School of Arts and Sciences  
Computer Science Department  
Bloomington, IN, 47405, United States

Degrees: BA, BS, MS, PHD

Contact: Prof. Robertson, Edward  
Professor and Chair  
(812) 335-4954

Update: November 1987

**Courses: Information Systems I C445 B P O Y 6**

Textbooks: *An Introduction to Database Systems*  
by Date, Chris J.  
*Database System Concepts*  
by Korth, Henry F. and Silberschatz, Abraham  
*Software Engineering*  
by Sommerville, Ian  
*Tools and Techniques for Structured Systems Analysis and Design*  
by Davis, William S.  
Computers: PCs  
Vax (VMS)  
Languages: C  
Fortran  
Ingres  
Modula-2  
dBase III plus  
rBase 5000

**Information Systems II C446 B P O Y 6**

Textbooks: *An Introduction to Database Systems*  
by Date, Chris J.  
*Database System Concepts*  
by Korth, Henry F. and Silberschatz, Abraham  
*Software Engineering*  
by Sommerville, Ian  
*Tools and Techniques for Structured Systems Analysis and Design*  
by Davis, William S.  
Computers: PCs  
Vax (VMS)  
Languages: C  
Fortran  
Ingres  
Modula-2  
dBase III plus  
rBase 5000

**Software Engineering Management C607 G P E Y 4**

Textbooks: *Advanced Course on Software Engineering*  
by Bauer, Friedrich Ludwig  
*Concise Notes on Software Engineering*  
by DeMarco, Tom



*Current Practices in Software Development: A Guide to Successful Systems*  
 by King, David  
*In Search of Excellence: Lessons From America's Best-Run Companies*  
 by Peters, Thomas, and Waterman, Robert  
*Managing a Programming Project*  
 by Metzger, Philip W.  
*Software Configuration Management*  
 by Babich, Wayne A.  
*Software Engineering*  
 by Sommerville, Ian  
*Software Engineering: Design, Reliability, and Management*  
 by Shooman, Martin L.  
*Software Engineering Concepts*  
 by Fairley, Richard E.  
*Software Engineering Economics*  
 by Boehm, Barry W.  
*Software Psychology: Human Factors in Computer and Information Systems*  
 by Shneiderman, Ben  
*Software Reliability*  
 by Kopetz, H.  
*The Mythical Man-Month: Essays on Software Engineering*  
 by Brooks, Frederick Phillips  
*The Psychology of Computer Programming*  
 by Weinberg, G.M.  
*Tools and Techniques for Structured Systems Analysis and Design*  
 by Davis, William S.

**Software Engineering Management C608 G P E Y 4**

Textbooks: *Advanced Course on Software Engineering*  
 by Bauer, Friedrich Ludwig  
*Concise Notes on Software Engineering*  
 by DeMarco, Tom  
*Current Practices in Software Development: A Guide to Successful Systems*  
 by King, David  
*In Search of Excellence: Lessons From America's Best-Run Companies*  
 by Peters, Thomas, and Waterman, Robert  
*Managing a Programming Project*  
 by Metzger, Philip W.  
*Software Configuration Management*  
 by Babich, Wayne A.  
*Software Engineering*  
 by Sommerville, Ian  
*Software Engineering: Design, Reliability, and Management*  
 by Shooman, Martin L.  
*Software Engineering Concepts*  
 by Fairley, Richard E.  
*Software Engineering Economics*  
 by Boehm, Barry W.  
*Software Psychology: Human Factors in Computer and Information Systems*  
 by Shneiderman, Ben  
*Software Reliability*  
 by Kopetz, H.  
*The Mythical Man-Month: Essays on Software Engineering*  
 by Brooks, Frederick Phillips  
*The Psychology of Computer Programming*  
 by Weinberg, G.M.  
*Tools and Techniques for Structured Systems Analysis and Design*  
 by Davis, William S.



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**Instituto Tecnológico y de Estudios Superiores de Monterrey**  
Graduate Program  
Monterrey, N.L., 64849, Mexico

**Degrees:** MS

**Contact:** Dr. Scheel, Carlos  
58-20-00 x161

**Update:** None

**Courses:** **Software Engineering CB-131 G P E Y**  
**Textbooks:** *Software Engineering: A Practitioner's Approach*  
by Pressman, Roger S.  
*Software Tools in Pascal*  
by Kernighan, Brian and Plauger, P.J.  
**Computers:** Altos  
Apple  
IBM 4381  
IBM PC

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**Iona College School of Arts and Science**  
Department of Computer and Information Sciences  
Program in Computer Science  
New Rochelle, NY, 10801, United States

**Degrees:** BA, BS, MS

**Contact:** Dr. Mallozzi, J.  
Chair of Department  
(914) 633-2578

**Update:** None

**Courses:** **Software Engineering CIS 390 U P E Y**  
**Computers:** IBM mainframe  
  
**Introduction to Software Engineering CIS 640 G P E Y**  
**Computers:** IBM mainframe

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**Iowa State University School of Sciences and Humanities**  
Department of Computer Science  
Program in Computer Science  
Ames, IA, 50011, United States

**Degrees:** BS, MS, PHD

**Contact:** Prof. Oldehoeft, Arthur E.  
Acting Chair  
(515) 254-4377

**Update:** None

**Courses:** **Software Engineering CS 411 U N E O 5**  
**Textbooks:** *Software Engineering: Design, Reliability, and Management*  
by Shooman, Martin L.

Computers: HP 9000 Model 350  
Languages: Ada

**Software Engineering CS 512 G N E Y 2**

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**Kent State University** School of Arts and Sciences  
Department of Mathematical Sciences  
Program in Mathematics/Computer Science  
Kent, OH, 44242, United States

**Degrees:** BS, MS, PHD

**Contact:** Prof. Rothstein, Michael  
Assistant Professor  
(216) 672-2430

**Update:** May 1987

**Courses: Software Engineering 63251 G P E Y 5**

**Textbooks:** *Software Engineering*  
by Sommerville, Ian

**Compilers:** C  
Pascal

**Computers:** Vax 750 (Unix)

**Software Engineering Projects 43107 U P E D 2**

**Textbooks:** *Software Engineering*  
by Sommerville, Ian

**Computers:** Unix

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**Lehigh University** College of Engineering and Physical Sciences  
Department of Electrical Engineering  
Bethlehem, PA, 18015, United States

**Degrees:** BS CS, BS CE, BS EE, MS CS, MS CE, MS EE, PHD CS, PHD CE, PHD EE

**Contact:** Prof. Cohen, Fred  
Assistant Professor  
(215) 758-5001

**Update:** May 1987

**Courses: Software Engineering ECE 116 U P R Y 5**

**Textbooks:** *Software Engineering Concepts*  
by Fairley, Richard E.

**Computers:** CYBER 180 Model 850  
DEC 20 Model 2065  
Zenith Z-100 PC series

**Information Protection ECE 4?? G N E Y 3**

**Textbooks:** *Introductory Information Protection*  
by Cohen, Fred

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Computers: 3B15  
3B2  
Cyber 850  
DEC 20  
Harris  
Intel  
PC  
Sun  
Vax  
Zenith

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**Louisiana Tech University**  
Department of Computer Science  
Ruston, LA, 71272, United States

**Degrees:** BS, MS

**Contact:** Prof. Schaar, Margaret  
Assistant Professor  
(318) 257-2298

**Update:** May 1987

**Courses:** **Structured Design CS 203 U P R O 1**  
Computers: IBM 4341  
IBM PC network  
Languages: Pascal

**Software Methodology CS 460 U P E Y 4**  
Textbooks: *Software Engineering*  
by Sommerville, Ian  
Computers: IBM 4341  
IBM PC network  
Languages: Ada

**System Design CS 540 G P E Y 3**  
Compilers: Ada  
Computers: IBM PC network  
Languages: Ada

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**Marquette University College of Engineering**  
Department of Electrical Engineering and Computer Science  
Program in Computer Science and Engineering  
Milwaukee, WI, 53233, United States

**Degrees:** BS EE, MS EE, PHD EE

**Contact:** Dr. Niedejohn, Russell J.  
Professor  
(414) 224-1593

**Update:** May 1987

**Courses:** **Mini- and Microcomputers EECS-190 B P B T 18**  
Textbooks: *Intel data books*  
Computers: DEC PDP 11  
Intel 8085  
Languages: Assembly

**Software Engineering EECS-211 G N E T 10**

Compilers: Pascal  
Computers: Vax  
Languages: Pascal

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**Massachusetts Institute of Technology School of Engineering**  
Department of Electrical Engineering and Computer Science  
Program in Computer Science  
Cambridge, MA, 02139, United States

**Degrees:** BS, MS, PHD

**Contact:** Prof. Corbato, F. J.  
Associate Head for Computer Science and Engineering  
(617) 253-6001

**Update:** May 1987

**Courses:** **Introduction to Programming Concepts 6.001 U N R T**  
**Textbooks:** *Structure and Interpretation of Computer Programs*  
by Abelson, Harold, Sussman, Gerald Jay, and Sussman, Julie  
**Compilers:** Scheme  
**Computers:** HP  
**Languages:** Scheme

**Laboratory In Software Engineering 6.170 U P R T**  
**Textbooks:** *Abstraction and Specification in Program Development*  
by Liskov, Barbara and Guttag, John  
**Compilers:** CLU  
**Computers:** DEC 20  
**Languages:** CLU

**Computer Language Engineering 6.035 U P O Y 5**  
**Textbooks:** *Compilers, Principles, Techniques, and Tools*  
by Aho, Alfred V., Sethi, Ravi, and Ullman, Jeffrey D.  
**Compilers:** CLU  
**Computers:** DEC 20  
**Languages:** CLU

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**McGill University School of Computer Science**  
Montreal, PQ, H3A 2K6, Canada

**Degrees:** MS, PHD

**Contact:** Prof. Madhavji, Nazim H.  
Professor  
(514) 398-7073

**Update:** None

**Courses:** **Advanced Topics (Software Engineering) 308-762A G P E Y 4**  
**Textbooks:** *Software Development: A Rigorous Approach*  
by Jones, C.B.  
*Software Engineering*  
by Sommerville, Ian  
*Software Engineering Environments*  
by Hunke, H.  
*Software Engineering with Modula-2 and Ada*  
by Wiener, Richard and Sincovec, Richard

Compilers: Cambridge Modula-2  
Modula-2/68  
Powell Modula-2  
Computers: Sun 3  
Vax 11/780  
Languages: Modula-2

**Advanced Topics (Programming Environments) 308-767B G P E Y 2**

Textbooks: *Interactive Programming Environments*  
by Barstow, David R., Shrobe, Howard E., and Sandewall, Erik  
Compilers: Cambridge Modula-2  
Modula-2/68  
Powell Modula-2  
Computers: Sun 3  
Vax 11/780  
Languages: Modula-2

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**Michigan State University College of Engineering**  
Computer Science Department  
Program in Computer Science  
East Lansing, MI, 48824-1027, United States

Degrees: BS, MS, PHD

Contact: Prof. Forsyth, John J.  
Associate Professor and Associate Chairperson  
(517) 355-1646

Update: October 1987

**Courses: Design of Language Processors I CPS 451 U P R O 5**

Textbooks: *Compiler Construction: Theory and Practice*  
by Barrett and Couch  
*Software Engineering Concepts*  
by Fairley, Richard E.

Compilers: C  
Computers: Sun 4 file server with workstations on Ethernet (C and Unix environment)  
Languages: C

**Design of Language Processors II CPS 452 U P R O 5**

Textbooks: *Compiler Construction: Theory and Practice*  
by Barrett and Couch  
*Software Engineering Concepts*  
by Fairley, Richard E.

Compilers: C  
Computers: Sun 4 file server with workstations on Ethernet (C and Unix environment)  
Languages: C

**Design of Language Processors III CPS 453 U P R O 5**

Textbooks: *Compiler Construction: Theory and Practice*  
by Barrett and Couch  
*Software Engineering Concepts*  
by Fairley, Richard E.

Compilers: C  
Computers: Sun 4 file server with workstations on Ethernet (C and Unix environment)  
Languages: C

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**Michigan Technological University** College of Sciences and Arts  
Department of Computer Science  
Houghton, MI, 49931, United States

**Degrees:** BS CS, MS CS

**Contact:** Prof. Ottenstein, Linda M.  
Coordinator of Computer Science  
(906) 487-2187

**Update:** None

**Courses:** **Software Engineering CS550 G P R Y**  
**Textbooks:** *Software Engineering: A Practitioner's Approach*  
by Pressman, Roger S.  
**Computers:** Vax 750 running Unix

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**Monmouth College**  
Department of Mathematics/Computer Science  
West Long Branch, NJ, 07764, United States

**Degrees:** MS SE

**Contact:** Dr. Canavan, Bob  
Professor of Mathematics and Computer Science  
(201) 222-6600

**Update:** None

**Courses:** **Programming Languages SE 509 G X R X**  
**Network Design and Protocols I SE 510 G X R X**  
**Network Design and Protocols II SE 511 G X R X**  
**Algorithms Design and Analysis SE 512 G X R X**  
**Computer Architecture SE 514 G X R X**  
**Operating System Implementation SE 515 G X R X**  
**Software Engineering I SE 516 G X R X**  
**Software Engineering II SE 517 G X R X**  
**Database Management SE 519 G X R X**  
**System Project Implementation SE 525 G X R X**

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**Montclair State College** School of Mathematics and Computer Science  
Department of Mathematics and Computer Science  
Upper Montclair, NJ, 07043, United States

**Degrees:** BS, MA CS

**Contact:** Prof. Wolff, K.  
Chairperson  
(201) 893-5132

**Update:** None

**Courses:** Software Engineering and Reliability Y0701 594 G P E B

**Textbooks:** *Ethnotechnical Review Handbook*  
by Freedman, Daniel P.  
*Software Engineering: A Practitioner's Approach*  
by Pressman, Roger S.  
*Software Engineering: Reliability, Development and Management*  
by Sherman, M.  
*Software Reliability: Principles and Practices*  
by Myers, Glenford J.

**Systems Software Y0701 384 U P E Y**

**Textbooks:** *Systems Programming*  
by Donovan, John J.  
*Systems Software: An Introduction to Systems Programming*  
by Beck, Leland

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National University School of Engineering and Computer Sciences  
Master of Science in Software Engineering  
San Diego, CA, 92108, United States

**Degrees:** MS SE

**Contact:** Prof. Sibley, Peter H. R.  
Dean, School of Engineering and Computer Sciences  
(619) 563-7123

**Update:** June 1987

**Courses:** Principles of Software Engineering CS 620 G N R T 2

**Textbooks:** *CMS Primer Release 3*  
by IBM  
*Information System Specification and Design Road Map*  
by Connor, D.  
**Compilers:** TeleSoft Ada  
**Computers:** IBM 4381 with VM/CMS  
**Languages:** Ada  
CMS

**Introduction to the Application Programming Language - Ada CS 621a G P R T 2**

**Textbooks:** *Ada: An Introduction*  
by Saib, S.  
*CMS Primer Release 3*  
by IBM  
*Reference Manual for the Ada Programming Language*  
ANSI/MIL-STD-1815A  
**Compilers:** TeleSoft Ada  
**Computers:** IBM 4381 with VM/CMS  
**Languages:** Ada  
CMS



**Advanced Application Programming CS 621b G P R T 2**

Textbooks: *Ada: An Introduction*  
by Saib, S.  
*CMS Primer Release 3*  
by IBM  
*Reference Manual for the Ada Programming Language*  
ANSI/MIL-STD-1815A  
Compilers: TeleSoft Ada  
Computers: IBM 4381 with VM/CMS  
Languages: Ada  
CMS

**Advanced Software Engineering CS 622 G P R T 2**

Textbooks: *Software Engineering with Ada*  
by Booch, Grady  
Compilers: TeleSoft Ada  
Computers: IBM 4381 with VM/CMS  
Languages: Ada  
CMS

**Data Base Management I CS 623a G P R T 2**

Textbooks: *An Introduction to Database Systems*  
by Date, C.J.  
Compilers: TeleSoft Ada  
Computers: IBM 4381 with VM/CMS  
Languages: Ada  
CMS

**Data Base Management II CS 623b G P R T 2**

Textbooks: *An Introduction to Database Systems*  
by Date, C.J.  
Compilers: TeleSoft Ada  
Computers: IBM 4381 with VM/CMS  
Languages: Ada  
CMS

**Principles of Hardware and Software Integration CS 624 G P R T 2**

Textbooks: *Computer System Architecture*  
by Mano, M.  
Compilers: TeleSoft Ada  
Computers: IBM 4381 with VM/CMS  
Languages: Ada  
CMS

**Expert Systems CS 625a G P R T 2**

Textbooks: *Introduction to Expert Systems*  
by Jackson, P.  
Compilers: TeleSoft Ada  
Computers: IBM 4381 with VM/CMS  
Languages: Ada  
CMS

**Verification and Validation Techniques CS 626 G P R T 2**

Textbooks: *Software Verification and Validation: Realistic Project Approaches*  
by Deutsch, M.S.  
Compilers: TeleSoft Ada  
Computers: IBM 4381 with VM/CMS  
Languages: Ada  
CMS



**Software Engineering Project I CS 627a G P R T 2**

Textbooks: *Information System Specification and Design Road Map*  
by Connor, D.  
Compilers: TeleSoft Ada  
Computers: IBM 4381 with VM/CMS  
Languages: Ada  
CMS

**Software Engineering Project II CS 627b G P R T 2**

Textbooks: *Information System Specification and Design Road Map*  
by Connor, D.  
Compilers: TeleSoft Ada  
Computers: IBM 4381 with VM/CMS  
Languages: Ada  
CMS

**Software Engineering Project III CS 627c G P R T 2**

Textbooks: *Information System Specification and Design Road Map*  
by Connor, D.  
Compilers: TeleSoft Ada  
Computers: IBM 4381 with VM/CMS  
Languages: Ada  
CMS

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**New Mexico Institute of Mining and Technology**

Department of Computer Science  
Program in Computer Science  
Socorro, NM, 87801, United States

Degrees: BS, MS, PHD

Contact: Prof. Popp, Carl  
Vice President for Academic Affairs  
(505) 835-5227

Update: October 1987

**Courses: Software Construction CS328 U P E O 5**

Textbooks: *The Mythical Man-Month: Essays on Software Engineering*  
by Brooks, Frederick Phillips  
Compilers: C  
Computers: Vax 750 under Unix  
Languages: C

**Design and Analysis of Software Systems CS528 G P E D 2**

Compilers: C  
Computers: Vax 750 under Unix  
Languages: C

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**New Mexico State University School of Arts and Sciences**

Department of Computer Science  
Program in Computer Science  
Las Cruces, NM, 88003, United States

Degrees: BS, MS, PHD

**Contact:** Prof. Dearholt, Don  
Acting Department Head  
(505) 646-3724

**Update:** October 1987

**Courses:** **Algorithmic Computations CS 271 U P R T 3**  
Textbooks: *Programming and Problem Solving with Modula-2*  
by Adams, Gabrini, and Kurtz  
Compilers: Modula-2  
Computers: IBM PC  
Languages: Modula-2

**Data Structures CS 272 U P R T 3**  
Textbooks: *Data Structures with Abstract Data Types and Modula-2*  
by Weber, Neil W. and Stubbs, Daniel F.  
Compilers: Modula-2  
Computers: IBM PC  
Languages: Modula-2

**Software Development CS 371 U P R T 4**  
Textbooks: *Software Engineering with Modula-2 and Ada*  
by Wiener, Richard S. and Sincovec, Richard F.  
Compilers: Ada  
Computers: IBM PC  
SUN  
Languages: Ada

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**North Carolina State University**  
Department of Computer Science (Undergraduate)  
Program in Computer Studies (Graduate)  
Raleigh, NC, 27695, United States

**Degrees:** BS, MS, MCS

**Contact:** Prof. Tai, K. C.  
Professor  
(919) 737-7862

**Update:** May 1987

**Courses:** **Software Engineering CSE 510 G P E Y 9**  
Textbooks: *Software Engineering: Design, Reliability, and Management*  
by Shooman, Martin L.  
*Software Engineering Concepts*  
by Fairley, Richard E.  
Compilers: Pascal/VS  
UCSD Pascal  
Computers: IBM 4381 (VM/CMS)  
MicroVax (Ulrix)  
SAGE (UCSD p system)  
Languages: Pascal

**Software Engineering Project CSC 472 U P E Y 3**  
Compilers: Verdex C  
Computers: MicroVax (Ulrix)  
Languages: C and Unix Shell

**Introduction to Programming Environment CSC 471 U P E Y 3**

Compilers: Verdex C  
Computers: MicroVax (Ultrix)  
Languages: C and Unix Shell

**Software Engineering with Ada CSC 481 U P E Y 3**

Textbooks: *Software Engineering with Ada*  
by Booch, Grady  
Compilers: Verdex Ada  
Computers: MicroVax (Ultrix)  
Languages: Ada

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**North Dakota State University School of Science and Mathematics**  
Department of Computer Science  
Fargo, ND, 58105, United States

**Degrees:** BS, MS, PHD

**Contact:** Prof. Magel, Kenneth  
Director of Computer Science  
(701) 237-8189

**Update:** None

**Courses:** **Software Development 513 G P X Y**  
Textbooks: *Software Engineering: A Practitioner's Approach*  
by Pressman, Roger S.  
Computers: Vax 11/780 running Berkeley Unix 4.3  
Zenith PCs running MS DOS 3.1

**Systems Analysis 213 U P X Y**  
Computers: IBM 3081 using CMS

**Operating Systems Implementation 475 U P X O**  
Textbooks: *XINU*  
Computers: Vax 11/780

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**Northeastern University College of Computer Science**  
Boston, MA, 02115, United States

**Degrees:** BS, MS

**Contact:** Prof. Campagnoni, F. R.  
Assistant Professor  
(617) 437-3824

**Update:** None

**Courses:** **Software Design and Development COM1205 U P R O**  
Textbooks: *Software Engineering Concepts*  
by Fairley, Richard E.  
*Software Tools in Pascal*  
by Kernighan, Brian and Plauger, P.J.

Computers: Apollo workstations  
IBM 4381  
IBM PC  
Local area networks  
Pyramid 98X  
Vax 11/780

**Senior Project COM1600 U P E O**

Textbooks: *Software Reliability: Principles and Practices*  
by Myers, Glenford J.

Computers: Apollo workstations  
DEC Vax  
IBM 4381  
IBM PC  
Local area networks  
Pyramid 98X

**Software Design and Development COM3205 G P R O**

Textbooks: *Software Engineering: Design, Reliability, and Management*  
by Shooman, Martin L.  
*The Mythical Man-Month: Essays on Software Engineering*  
by Brooks, Frederick Phillips

Computers: Apollo workstations  
DEC Vax  
IBM 4381  
IBM PC  
Local area networks  
Pyramid 98X

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**Northrop University**

Department of Computer and Information Science  
Los Angeles, CA, 90045, United States

Degrees: BS CS, MS CS, MS IS

Contact: Dr. Teitell, Murray  
Chairman  
(213) 641-3470

Update: None

Courses: **Software Engineering I CS-475 U P E Y**

Textbooks: *Software Engineering*  
by Sommerville, Ian

**Software Engineering II CS-476 U P E Y**

**Advanced Software Design CS-477 U P E Y**

Textbooks: *Structured Systems Analysis: Tools and Techniques*  
by Gane, Chris and Sarson, Trish

Computers: IBM PC with Graphics

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**Nova University Center for Computer-Based Learning**

Department of Computer Science  
Program in Computer Science  
Ft. Lauderdale, FL, 33314, United States

Degrees: BS CS, MS CS, SCD CS

**Contact:** Dr. Simco, Edward R.  
Director  
(305) 475-7563

**Update:** None

**Courses:** **Software Engineering CIS 680 G N R O**  
**Textbooks:** *Research Directions in Software Technology*  
by Wegner, Peter  
*Software Engineering*  
by Jensen, Randall W. and Tonies, Charles C.  
**Computers:** Vax 11/780 (Unix 4.2 BSD)

**Software Engineering Implementation CIS 682 G P E D**  
**Textbooks:** *Research Directions in Software Technology*  
by Wegner, Peter  
*Software Engineering*  
by Jensen, Randall W. and Tonies, Charles C.  
**Computers:** Vax 11/780 (Unix 4.2 BSD)

**Software Engineering CIS 770 G P R Y**  
**Computers:** Vax 11/780 (Unix 4.2 BSD)

**Software Engineering Project CIS 870 G P R Y**  
**Computers:** Vax 11/780 (Unix 4.2 BSD)

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**Oregon State University School of Science**  
Department of Computer Science  
Program in Computer Systems  
Corvallis, OR, 97331, United States

**Degrees:** BS, MS, PHD

**Contact:** Prof. Lewis, Ted  
Professor  
(503) 754-3273

**Update:** None

**Courses:** **Software Design CS 319 U P R T**  
**Textbooks:** *Software Engineering Concepts*  
by Fairley, Richard E.  
**Computers:** IBM PC  
Macintosh  
Unix (HP)

**Software Systems: Methodology CS 561 G P R Y**  
**Computers:** Macintosh  
**Languages:** C  
Modula-2  
Pascal

**Software Systems: Design CS 562 G P R Y**  
**Computers:** Macintosh  
**Languages:** C  
Modula-2  
Pascal

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**Polytechnic University, Brooklyn Campus School of Engineering**  
Department of Electrical Engineering and Computer Science  
Computer Science Division  
Brooklyn, NY, 11201, United States

**Degrees:** BS CS, BS EE, MS CS, MS IS, PHD CS

**Contact:** Prof. Shooman, Martin L.  
Professor  
(516) 454-5099

**Update:** None

**Courses:** **Software Engineering I CS606 G P B O**  
Textbooks: *Software Engineering: Design, Reliability, and Management*  
by Shooman, Martin L.  
Computers: Software Engineering Laboratory

**Software Engineering II CS607 G P E B**  
Textbooks: *Software Engineering: Design, Reliability, and Management*  
by Shooman, Martin L.  
Computers: Software Engineering Laboratory

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**Polytechnic University, Farmingdale Campus School of Engineering**  
Department of Electrical Engineering and Computer Science  
Computer Science Division  
Farmingdale, NY, 11735, United States

**Degrees:** BS CS, BS EE, MS CS, MS IS, PHD CS

**Contact:** Prof. Shooman, Martin L.  
Professor  
(516) 454-5099

**Update:** None

**Courses:** **Software Engineering I CS606 G P B O**  
Textbooks: *Software Engineering: Design, Reliability, and Management*  
by Shooman, Martin L.  
Computers: Software Engineering Laboratory

**Software Engineering II CS607 G P E B**  
Textbooks: *Software Engineering: Design, Reliability, and Management*  
by Shooman, Martin L.  
Computers: Software Engineering Laboratory

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**Polytechnic University, Westchester Campus School of Engineering**  
Department of Electrical Engineering and Computer Science  
Computer Science Division  
White Plains, NY, 10605, United States

**Degrees:** BS CS, BS EE, MS CS, MS IS, PHD CS

**Contact:** Prof. Shooman, Martin L.  
Professor  
(516) 454-5099



**Update:** None

**Courses:** **Software Engineering I** CS606 G P B Y

**Textbooks:** *Software Engineering: Design, Reliability, and Management*  
by Shooman, Martin L.

**Computers:** Software Engineering Laboratory

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**Purdue University (Entry 1) School of Science**  
Department of Computer Science  
West Lafayette, IN, 47907, United States

**Degrees:** BS, MS, PHD

**Contact:** Dr. Dunsmore, H. E.  
Associate Professor  
(317) 494-1996

**Update:** None

**Courses:** **Software Engineering CS 404** U P E T

**Textbooks:** *Software Engineering*  
by Sommerville, Ian

**Computers:** DEC Vax 11/780 (Unix OS)

**Software Metrics CS 510** G P E Y

**Textbooks:** *Software Engineering Metrics and Models*  
by Conte, Samuel Daniel, Dunsmore, H.E., and Shen, V.Y.

**Computers:** DEC Vax 11/780 (Unix OS)

**Systems Programming CS 403** U P R T

**Textbooks:** *Operating System Concepts*  
by Peterson, James and Silberschatz, Abraham

**Computers:** DEC Vax 11/780 (Unix OS)

**Programming Languages CS 565** G P R T

**Textbooks:** *Principles of Programming Languages*  
by Tennent, R.

**Computers:** DEC Vax 11/780 (Unix OS)

**Information Systems CS 442** U P E T

**Textbooks:** *Management Info. Systems: Conceptual Foundations, Structure, and Development*  
by Davis, Gordon Bitter and Olson, Margrethe H.

**Computers:** DEC Vax 11/780 (Unix OS)

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**Purdue University (Entry 2) School of Industrial Engineering**  
West Lafayette, IN, 47907, United States

**Degrees:** BS, MS, PHD

**Contact:** Prof. Leimkuhler, F. F.  
Head  
(317) 494-5444

**Update:** June 1987

**Courses:** **Systems Analysis and Design I** IE 231 U P R T 1

**Textbooks:** *Learning to Program in C*  
by Plum, Thomas

**Compilers:** Unix

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Computers: Gould NP1  
Vax 11/780  
Languages: C

**Programming Languages for Artificial Intelligence IE 547 G P E T 3**

Textbooks: *LISP Craft*  
by Wilensky, Robert  
Computers: Vax 11/750  
Vax 11/780  
Languages: Lisp  
Prolog

**Human-Computer Interaction IE 557 G P E Y 7**

Computers: IBM PC/AT  
Languages: Fortran

**Cognitive Engineering of Interactive Software IE 559 G P E Y 3**

Textbooks: *Human-Computer Dialogue Design*  
by Ehrich, Roger W. and Williges, Robert C.  
Computers: IBM PC/AT  
Languages: Fortran

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Queen's University Faculty of Arts and Science  
Department of Computing and Information Science  
Kingston, ON, K7L 3N6, Canada

Degrees: BS, MS

Contact: Dr. Lamb, David  
Administrative Liason for SEI Academic Affiliate Program  
(613) 545-6067

Update: June 1987

Courses: **Modules and Specifications CISC 322 U P E Y 1**

**Software Engineering CISC 422/CISC 838 B P E Y 3**

Textbooks: *Software Engineering*  
by Lamb, David  
Compilers: IBM Pascal/VS  
Computers: IBM 3081 under VM/CMS  
Languages: Pascal/VS

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Rensselaer Polytechnic Institute (Entry 1) School of Science  
Department of Computer Science  
Troy, NY, 12180, United States

Degrees: BS, MS, PHD

Contact: Prof. Fiaherty, Joseph E.  
Chairman  
(518) 276-6348

Update: October 1987

Courses: **Design and Documentation 66.496 U P R Y 1**

Computers: Modula-2  
Unix WWB & PWB

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**Rensselaer Polytechnic Institute (Entry 2) School of Engineering**  
Department of Electrical, Computer and Systems Engineering  
Troy, NY, 12180, United States

**Degrees:** BS, ME, MS, PHD EE, PHD CSE, DENG

**Contact:** Prof. Gerhardt, Lester A.  
Chairman  
(518) 266-6316

**Update:** None

**Courses:** Software Engineering I 35.677 G P E Y  
**Textbooks:** *Classics in Software Engineering*  
by Yourdon, Edward N.  
*Software Engineering: A Practitioner's Approach*  
by Pressman, Roger S.

Software Engineering II 35.678 G P E Y  
**Textbooks:** *Classics in Software Engineering*  
by Yourdon, Edward N.  
*Software Engineering: A Practitioner's Approach*  
by Pressman, Roger S.

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**Rochester Institute of Technology School of Computer Science**  
Graduate Department of Computer Science  
Rochester, NY, 14623, United States

**Degrees:** BS CS, MS CS

**Contact:** Dr. Anderson, Peter  
Chairperson  
(716) 475-2529

**Update:** None

**Courses:** Software Engineering I ICSS-801 G N E T  
**Textbooks:** *Software Engineering: Design, Reliability, and Management*  
by Shooman, Martin L.

Software Engineering Laboratory ICSS-802 G P E Y  
**Textbooks:** *Reference Manuals for Software Systems*  
**Computers:** Pyramid Unix  
Vax VMS

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**Rogers State College**  
Computer Science Division  
Claremore, OK, 74017, United States

**Degrees:** AAS CAD, AAS CET, AAS CP, AS CS

**Update:** None

**Courses:** Software Engineering (Systems Analysis and Design) CS 2133 X X R X

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**Royal Melbourne Institute of Technology Information Technology Division**  
Melbourne, Victoria, 3001, Australia

**Degrees:** BS CS, MS CS

**Contact:** Prof. Montgomery, Anthony Y.  
Head  
660-2943

**Update:** None

**Courses:** **Software Engineering 1** CS280 U X R X

**Software Engineering 2** CS381 U X E X

**Textbooks:** *Models and Measurements for Quality Assessment of Software*  
by Mohanty, S.N.

**Software Engineering 3** CS 387 U X E X

**Textbooks:** *The Mythical Man-Month: Essays on Software Engineering*  
by Brooks, Frederick Phillips

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**San Jose State University School of Science**  
Department of Mathematics and Computer Science  
Programs in Computer Science and Mathematics  
San Jose, CA, 95192, United States

**Degrees:** BA, BS, MA, MS

**Contact:** Prof. Phillips, Veril L.  
Chairman  
(408) 277-2411

**Update:** None

**Courses:** **Advanced Programming Math** 146B U P B T

**Textbooks:** *Advanced Programming and Problem Solving with Pascal*  
by Schneider, G. Michael and Bruell, Steven C.

**Graduate Seminar in Computer Science Math** 295 G N R T

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**Sangamon State University School of Liberal Arts and Sciences**  
Department of Mathematical Systems  
Springfield, IL, 62708, United States

**Degrees:** BA CS, MS M

**Contact:** Prof. Lasby, Gary  
Convener  
(217) 786-6770

**Update:** None

**Courses:** **Introduction to Software Engineering** MSY 478 U P E Y

**Software Engineering** MSY 578 G P E Y

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**Seattle University School of Science and Engineering**  
Department of Software Engineering/Computer Science  
Program in Software Engineering  
Seattle, WA, 98122, United States

**Degrees:** MSE

**Contact:** Dr. Mills, Everaldo E.  
Director  
(206) 296-5510

**Update:** June 1987

**Courses:** **Technical Communication ESW 508 G N R Y 8**

**Textbooks:** *The Elements of Style*  
by Strunk, William, and White, E. B.

**Computers:** HP 3000  
PCs  
Vax 11/750

**Languages:** C  
Pascal

**Software Systems Analysis ESW 510 G P R Y 8**

**Textbooks:** *Essential Systems Analysis*  
by McMenamin, Stephen M. and Palmer, John F.  
*Structured Analysis and System Specification*  
by DeMarco, Tom

**Computers:** HP 3000  
PCs  
Vax 11/750

**Languages:** C  
Pascal

**System Design Methodology ESW 512 G P R Y 8**

**Textbooks:** *The Practical Guide to Structured Systems Design*  
by Page-Jones, Meilir

**Computers:** HP 3000  
PCs  
Vax 11/750

**Languages:** C  
Pascal

**Programming Methodology ESW 514 G P R Y 8**

**Textbooks:** *Writing Efficient Programs*  
by Bentley, Jon Louis

**Computers:** HP 3000  
PCs  
Vax 11/750

**Languages:** C  
Pascal

**Software Quality Assurance ESW 516 G P R Y 8**

**Textbooks:** *Software Reliability Guidebook*  
by Glass, R.

**Computers:** HP 3000  
PCs  
Vax 11/750

**Languages:** C  
Pascal

**Software Metrics ESW 518 G P R Y 8**

Textbooks: *Software Engineering Economics*  
by Boehm, Barry W.  
Computers: HP 3000  
PCs  
Vax 11/750  
Languages: C  
Pascal

**Software Project Management ESW 531 G P R Y 8**

Computers: HP 3000  
PCs  
Vax 11/750  
Languages: C  
Pascal

**System Procurement and Contract Acquisition ESW 533 G P E Y 8**

Textbooks: *Data Processing Contracts: Structure, Contents, and Negotiations*  
by Brandon, Dick H. and Segelstein, S.  
Computers: HP 3000  
PCs  
Vax 11/750  
Languages: C  
Pascal

**Formal Methods ESW 543 G P R Y 8**

Textbooks: *Structured Programming, Theory and Practice*  
by Linger, Richard C., Mills, Harlan D., and Witt, Bernard I.  
Computers: HP 3000  
PCs  
Vax 11/750  
Languages: C  
Pascal

**Human Factors In Computing ESW 560 G P E Y 8**

Textbooks: *Software Psychology: Human Factors in Computer and Information Systems*  
by Shneiderman, Ben  
Computers: HP 3000  
PCs  
Vax 11/750  
Languages: C  
Pascal

**Data Security and Privacy ESW 562 G P E Y 8**

Textbooks: *Security, Accuracy, and Privacy in Computer Systems*  
by Martin, James  
Computers: HP 3000  
PCs  
Vax 11/750  
Languages: C  
Pascal

**Software Engineering Project I ESW 585 G P R Y 8**

Languages: C  
Pascal

**Software Engineering Project II ESW 586 G P R Y 8**

Languages: C  
Pascal

**Software Engineering Project III ESW 587 G P R Y 8**

Languages: C  
Pascal

**Special Topics ESW 591 G N E D 8**

Languages: C  
Pascal

**Special Topics ESW 592 G N E D 8**

Languages: C  
Pascal

**Special Topics ESW 593 G N E D 8**

Languages: C  
Pascal

**Independent Study ESW 596 G N E D 8**

Languages: C  
Pascal

**Independent Study ESW 597 G N E D 8**

Languages: C  
Pascal

**Independent Study ESW 598 G N E D 8**

Languages: C  
Pascal

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**Shippensburg University** School of Arts and Sciences  
Department of Mathematics and Computer Science  
Program in Computer Science  
Shippensburg, PA, 17257, United States

**Degrees:** BS CS

**Contact:** Dr. Bell, Howard  
Department Chairman  
(717) 532-1431

**Update:** June 1987

**Courses: Software Design for Information Systems CPS305 U P E Y 3**

Textbooks: *Software Engineering: A Practitioner's Approach*  
by Pressman, Roger S.

Compilers: Unix

Computers: AT&T 3B2  
Microcomputers  
Sperry 1100

Languages: C  
Fortran  
Pascal

**Research in Computer Science CPS405 U N E O 5**

Compilers: Unix

Computers: AT&T 3B2  
Microcomputers  
Sperry 1100

Languages: C  
Fortran  
Pascal



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**Southern Illinois University at Edwardsville School of Sciences**  
Department of Computer Science  
Edwardsville, IL, 62026, United States

**Degrees:** BA, BS CS

**Contact:** Dr. Hattemer, J. R.  
Chair  
(618) 692-2386

**Update:** October 1987

**Courses:** **Software Design and Development CS 424 U P E Y 4**  
Textbooks: *Software Design and Development*  
by Gilbert, Philip

**Topics in Software Engineering CS 524 G N E O 1**  
Compilers: Ada  
Computers: MicroVax 2  
Languages: Ada

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**Southwest Texas State University School of Science**  
Department of Computer Science  
San Marcos, TX, 78666, United States

**Degrees:** BA, BS, MA, MS

**Contact:** Dr. Hwang, C.J.  
Chairman  
(512) 245-3409

**Update:** June 1987

**Courses:** **Software Engineering CS 3398 U P E Y 4**  
Textbooks: *Software Engineering*  
by Sommerville, Ian  
*Software Engineering: A Practitioner's Approach*  
by Pressman, Roger S.

Compilers: C  
Fortran  
Pascal  
Computers: Vax 8600 with VMS

**Advanced Software Engineering CS 5398 G P E Y 2**  
Textbooks: *Principles of Information System Analysis and Design*  
by Mills, Linger, and Hevner  
*Software Engineering with Ada*  
by Booch, Grady  
Compilers: Vax Ada  
Vax C  
Computers: Vax 8600 with VMS  
Languages: Ada  
C

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**Stanford University School of Engineering**  
Department of Computer Science  
Stanford, CA, 94305, United States

**Degrees:** BS CS, BS CSE, MS, MS AI, PHD

**Contact:** Prof. Reges, Stuart  
Assistant Chairman for Education  
(415) 723-9798

**Update:** None

**Courses:** **Introduction to Software Engineering CS106A U N B T**

Textbooks: *Pascal*  
by Reges, Stuart  
Computers: DEC system 20

**Introduction to Software Engineering (continuation) CS106B U P B T**

Textbooks: *Intermediate Problem Solving and Data Structures*  
by Helman, Paul and Veroff, Robert  
Computers: DEC system 20

**Object-Oriented Design with Ada CS149 B P E Y**

Textbooks: *Software Engineering with Ada*  
by Booch, Grady  
Computers: Vax 8650

**Software Engineering Laboratory CS247 B P E Y**

Computers: Microcomputer (varies)

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**State University of New York at Binghamton**  
The Thomas J. Watson School of Engineering, Applied Science and Technology  
Department of Computer Science  
Binghamton, NY, 13901, United States

**Degrees:** BS, MSAT CS, PHDAT CS

**Contact:** Prof. Piatkowski, Thomas F.  
Chairman  
(607) 777-4802

**Update:** May 1987

**Courses:** **Principles of Software Engineering CS-342 U P E Y 3**

Textbooks: *Software Engineering: A Practitioner's Approach*  
by Pressman, Roger S.

Compilers: C  
IBM PC Basic  
Modula-2  
PL/I  
Pascal  
Turbo Pascal

Computers: IBM 4381  
IBM PC  
Vax 11/785

**Software Engineering I CS-545 G N E Y 3**

Textbooks: *Software Engineering Concepts*  
by Fairley, Richard E.  
*Software Engineering with Ada*  
by Booch, Grady  
Compilers: ALSYS Ada  
DEC Ada  
Computers: IBM PC/AT  
Vax 780  
Languages: Ada

**Software Engineering II CS-546 G P E Y 1**

Textbooks: *Software Engineering: Design, Reliability, and Management*  
by Shooman, Martin L.  
Compilers: ALSYS Ada  
DEC Ada  
Computers: IBM PC/AT  
Vax 780  
Languages: Ada

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State University of New York at Stony Brook College of Engineering and Applied Science  
Department of Computer Science  
Stony Brook, NY, 11794, United States

Degrees: BS, MS, PHD

Contact: Prof. Henderson, Peter B.  
Graduate Program Director  
(516) 632-8470

Update: May 1987

**Courses: Techniques of Software Design MSC-520 G N R Y 10**

Textbooks: *IEEE Tutorial on Software Engineering*  
by Wasserman, Anthony I. and Freeman, Peter  
*Software Engineering Concepts*  
by Fairley, Richard E.  
Compilers: Berkeley Unix Pascal  
Computers: Vax's and Sun workstations under Unix 4.3 BSD  
Languages: CLU  
Modula-2  
Pascal

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Stephen F. Austin State University School of Business Administration  
Department of Computer Science  
Nacogdoches, TX, 75962, United States

Degrees: MS CS

Contact: Dr. Grout, Jarrell C.  
Professor  
(409) 568-1876

Update: July 1987

**Courses: Software Development Principles 513 G N E B 1**

Textbooks: *Software Engineering Concepts*  
by Fairley, Richard E.

**Software Development Applications 525 G P E B 1**

Textbooks: *Software Engineering with Ada*  
by Booch, Grady  
Compilers: Ada  
Pascal  
Computers: Honeywell mainframe computer  
Various microcomputers  
Languages: Ada  
Pascal

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**Temple University School of Computer Science and Engineering**  
Department of Computer and Information Sciences  
Programs in Computer Science and Information Science  
Philadelphia, PA, 19122, United States

**Degrees:** BA, BBA, MA, MS BA, PHD, PHD BA

**Contact:** Ms. Shteir, Laurie  
(215) 787-8450

**Update:** None

**Courses: Data Structures and Algorithms 223 U P R T**

Textbooks: *Data Structures: Algorithms and Program Style*  
by Korsh, James  
Computers: CDC Cyber (750)

**Compiler Design 324 U P E Y**

Textbooks: *Algorithms + Data Structures = Programs*  
by Wirth, Niklaus  
*Assemblers, Compilers, and Program Translation*  
by Calingaert, Peter  
Computers: Cyber 750

**Topics in High Order Languages and Translation 665 G P E X**

Textbooks: *Lecture Notes in Computer Science*  
by Goos, G. and Hartmanis, J.

**Theorem Proving and Program Verification 675 G P E X**

Textbooks: *An Introduction to the General Theory of Algorithms*  
by Machtey, M. and Young, P.  
*The Design of Well-Structured and Correct Programs*  
by Alagic, Saud and Arbib, Michael A.

**Knowledge Based Systems 682 G P E X**

Textbooks: *Expert Systems, Concepts and Examples*  
by Alty and Coombs  
*Programming in Prolog*  
by Clocksin, W.F. and Mellish, C.S.  
Computers: OPS5  
Prolog

**Software Engineering 690 G N E X**

Textbooks: *Handbook of Software Engineering*  
by Vick, Charles R. and Ramamoorthy, C. V.  
*Software Engineering*  
by Sommerville, Ian  
Computers: OPS5  
Pascal  
VMS

**COBOL Information Retrieval and File Management 153 U P R T**

Textbooks: *Advanced Structured COBOL*  
by Welburn, Tyler  
*Data Management and File Processing*  
by Loomis, Mary E.

Computers: IBM 4381

**Information Systems Analysis and Design 201 U P R T**

Textbooks: *Elements of Systems Analysis*  
by Gorc and Stubbe

**Project in Information Science 301 U P R T**

Computers: AT&T 3B2  
PCs

**Data Management Systems 330 U P R T**

Textbooks: *Database Management*  
by McFadden, F.R. and Hoffer, J.A.

Computers: AT&T 3B2

**Software Design 338 U P E Y**

Textbooks: *Reliable Software Through Composite Design*  
by Myers  
*Software Engineering: A Practitioner's Approach*  
by Pressman, Roger S.  
*Structured Design*  
by Yourdon, Edward N. and Constantine, Larry

Computers: IBM 4381 PCs

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**Texas Christian University AddRan College**  
Computer Science Department  
Ft. Worth, TX, 76129, United States

**Degrees:** MSDD

**Contact:** Dr. Comer, James R.  
Chairman  
(817) 921-7166

**Update:** October 1987

**Courses: Introduction to Software Design and Development SODE 5143 G N R Y 8**

Textbooks: *Software Engineering Concepts*  
by Fairley, Richard E.

**Ada Design and Development SODE 6013 G P E D 3**

Textbooks: *Software Engineering with Ada*  
by Booch, Grady

Compilers: DEC Ada

Computers: DEC Vax 11/780

Languages: Ada

**Software Quality Assurance and Metrics SODE 6043 G P E D 3**

Textbooks: *Software Metrics*  
by Gilb, Tom

**Security and Privacy SODE 6053 G P E D 3**

Textbooks: *Foiling the System Breakers: Computer Security and Access Control*  
by Lobel, Jerome

**Modern Software Requirements and Design Techniques SODE 6113 G P R Y 7**

Textbooks: *Software Design: Methods and Techniques*  
by Peters, Lawrence J.  
*Structured Requirements Definition*  
by Orr, Kenneth T.

**Applied Design, Programming and Testing Techniques SODE 6123 G P R Y 7**

Textbooks: *IEEE Tutorial on Software Maintenance*  
by Parikh, Girish and Zvegintzov, Nicholas  
*The Art of Software Testing*  
by Myers, Glenford J.

**Management of Software Development SODE 6153 G P R Y 7**

Textbooks: *Controlling Software Projects*  
by DeMarco, Tom  
*Management Methodology for Software Product Engineering*  
by Gunther, Richard C.

**Economics of Software Development SODE 6163 G P R Y 7**

Textbooks: *Software Engineering Economics*  
by Boehm, Barry W.

**Effective Communications In Small Groups SODE 6193 G P E D 2**

Textbooks: *Task Design: An Integrative Approach*  
by Griffin, Ricky W.

**Computer Facilities Management SODE 6033 G P E D 1**

Textbooks: *Data Center Operations*  
by Schaeffer, Howard

**Software Implementation Project I SODE 7113 G P R Y 6**

**Software Implementation Project II SODE 7123 G P R Y 6**

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**The Claremont Graduate School**

Department of Information Science  
Program in Information Science  
Claremont, CA, 91711, United States

**Degrees:** MS CIS, MS MIS, PHD

**Contact:** Prof. Gray, Paul  
Chair  
(714) 621-8209

**Update:** September 1987

**Courses: Information Systems-Analysis and Design IS 305 G N R Y 4**

Textbooks: *Structured Analysis Methods for Computer Information Systems*  
by Teague, Lavette C. and Pidgeon, Christopher  
*Systems Analysis and Design Methods*  
by Whitten, Bentley, and Ho

Computers: IBM PC/AT  
Vax 11/785

Languages: Excelerator



**Systems Planning IS 328 G P R Y 4**

**Textbooks:** *Reading in Systems Planning (IS 328)*  
by Olfman  
*Using Excelerator for Systems Analysis and Design*  
by Whitten and Bentley  
**Computers:** IBM PC/AT  
Vax 11/785  
**Languages:** Excelerator

**Large Scale Software Development IS 362 G N R Y 3**

**Textbooks:** *Concise Notes on Software Engineering*  
by DeMarco, Tom  
**Computers:** IBM PC/AT  
IBM System 38  
Vax 11/785  
**Languages:** MAPICS

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**The George Washington University School of Engineering and Applied Science**  
Department of Electrical Engineering and Computer Science  
Washington, DC, 20052, United States

**Degrees:** BS CS, MS CS, SCD

**Contact:** Prof. Lang, R.  
Chairman  
(202) 676-6083

**Update:** None

**Courses:** **System Software and Software Engineering C.Sci. 151 U P R O**  
**Computers:** ATT B03  
IBM 4341

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**The Hartford Graduate Center School of Engineering and Science**  
Department of Computer and Information Science  
Program in Computer and Information Science  
Hartford, CT, 06120, United States

**Degrees:** MCS

**Contact:** Dr. Danchak, Michael  
Dean of the School of Engineering and Science  
(203) 548-2450

**Update:** None

**Courses:** **Software Engineering I 35677 G P B T**  
**Textbooks:** *Software Engineering Concepts*  
by Fairley, Richard E.  
**Computers:** AT&T PC6300s  
Apollo DOMAIN IX workstations (12)  
Sun3 workstations (33)  
Unix Vax 11/750 BSD 4.3 with NFS

**Software Engineering II 35678 G P E Y**

**Textbooks:** *A Practical Handbook For Software Development*  
by Birrell, N.D., and Ould, Martyn A.

Computers: AT&T PC6300s  
Apollo DOMAIN IX workstations (12)  
Sun3 workstations (33)  
Unix Vax 11/750 BSD 4.3 with NFS

**Software Project Management 66696 G P E B**

Textbooks: *IEEE Tutorial: Software Management*  
by Reifer, Donald  
*Software Engineering Economics*  
by Boehm, Barry W.  
*The Software Development Project: Planning and Management*  
by Bruce, Phillip and Pederson, Sam M.

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**The Pennsylvania State University College of Science**  
Computer Science Department  
Program in Computer Science  
University Park, PA, 19802, United States

Degrees: BS, MS, PHD

Contact: Dr. Lambert, Joseph M.  
Department Head  
(814) 865-9505

Update: June 1987

**Courses: Software Design Methods 498 U P E Y 1**

Textbooks: *Software Engineering: Design, Reliability, and Management*  
by Shooman, Martin L.  
Compilers: IBM Ada  
Computers: IBM 3090  
Languages: Ada

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**The University of Alberta School of Science**  
Department of Computing Science  
Edmonton, AB, T6G 2H1, Canada

Degrees: BS, MS, PHD

Contact: Prof. White, Lee J.  
Chairman  
(403) 432-4589

Update: October 1987

**Courses: Software Engineering CMPUT 401 U P R T 3**

Textbooks: *Software Engineering Concepts*  
by Fairley, Richard E.  
Compilers: Modula-2  
Pascal  
Computers: Macintosh  
Sun workstations (Unix OS)  
Languages: Modula-2  
Pascal

**Interactive Programming Environments CMPUT 652 G P E B 2**

Textbooks: *Interactive Programming Environments*  
by Barstow, David R., Shrobe, Howard E., and Sandewall, Erik

Compilers: Cornell program synthesizer generator  
Smalltalk  
Computers: Vax systems (Unix OS)  
Languages: Smalltalk

**Software Testing CMPUT 501 G P E B 2**

Textbooks: *Computer Program Testing*  
by Chandrasekaran, B. and Radicchi, Sergio  
*Software Testing Techniques*  
by Beizer, Boris  
Computers: Vax systems (Unix OS)

**Specification and Verification CMPUT 508 G P E Y 2**

Textbooks: *Communicating Sequential Processes*  
by Hoare, C.A.R.  
*The Logic of Programming*  
by Hehner, E.C.  
*The Science of Programming*  
by Gries, David  
Computers: Vax computer systems (Unix OS)  
Languages: Various specification languages

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**The University of Texas at Arlington The College of Engineering**  
Department of Computer Science Engineering  
Arlington, TX, 76019, United States

**Degrees:** BS, MS CS, MS CSE, ME CSE, PHD CS, PHD CSE

**Contact:** Dr. Grabow, Paul C.  
Assistant Professor  
(817) 273-2348

**Update:** June 1987

**Courses: Methods in Software Engineering CSE 4310 U P E Y 5**

Textbooks: *Software Engineering Concepts*  
by Fairley, Richard E.  
*The Mythical Man-Month: Essays on Software Engineering*  
by Brooks, Frederick Phillips  
Compilers: Pascal  
Computers: Vax 11/780  
Languages: Pascal

**Software Engineering CS 5324 G P R O 5**

Textbooks: *Software Engineering Concepts*  
by Fairley, Richard E.  
*The Mythical Man-Month: Essays on Software Engineering*  
by Brooks, Frederick Phillips  
Compilers: Ada  
Pascal  
Computers: Vax 11/780  
Languages: Ada  
Gypsy  
ISML  
Prolog

**Advanced Software Engineering CS 6324 G P E Y 5**

Textbooks: *Applying Software Engineering Principles with Fortran*  
by Marca, David  
Compilers: Ada  
Pascal

Computers: Vax 11/780  
Languages: Ada  
Pascal

**Special Topic: Software Engineering in Ada CSE 6392 G P E O 1**

Textbooks: *Programming in Ada*  
by Barnes, John Gilbert Presslie  
Compilers: DEC Ada  
Computers: Vax 11/780  
Languages: Ada

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**The University of Texas at Dallas School of Natural Sciences and Mathematics**  
Program in Computer Science  
Richardson, TX, 75083, United States

**Degrees:** BS, MS, PHD

**Contact:** Dr. Ntafos, Simeon  
Associate Professor and Program Head  
(214) 690-2181

**Update:** None

**Courses:** Software Engineering CS 6354 G N E Y  
Textbooks: *Software Engineering*  
by Sommerville, Ian

Software Validation, Verification, and Performance Measurement CS 6367 G P E O

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**The University of Texas at San Antonio College of Science and Engineering**  
Division of Mathematics, Computer Science and Systems Design  
Program in Computer Science  
San Antonio, TX, 78285, United States

**Degrees:** BS, MS

**Contact:** Dr. Hanavan, E. Patrick  
(512) 691-4452

**Update:** None

**Courses:** Programming Methodology CS 3773 U P R O  
Textbooks: *Automated Data Systems Documentation Standards*  
*Software Engineering: A Practitioner's Approach*  
by Pressman, Roger S.  
*The Elements of Programming Style*  
by Kernighan, Brian and Plauger, P.J.  
Computers: IBM 4381 with CMS  
Vax 11/780 with VMS

**Software Design CS 5103 G P E O**  
Textbooks: *The Program Development Process: Part II: The Programming Team*  
by Aron, Joel D.  
Computers: IBM 4381 with CMS

**Software Configuration Management CS 5143 G P E O**  
Textbooks: *Software Configuration Management: An Investment in Product Integrity*  
by Bersoff, Edward et al.

**Software Testing CS 5133 G P E O**  
Textbooks: *The Art of Software Testing*  
by Myers, Glenford J.  
Computers: Vax 11/780 with VMS

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**The Wichita State University College of Liberal Arts and Sciences**  
Department of Computer Science  
Wichita, KS, 67208, United States

**Degrees:** BA, BS, MS, MCS

**Contact:** Dr. Tomayko, James E.  
Director, Software Engineering Program  
(316) 689-3156

**Update:** May 1987

**Courses:** **Introduction to Software Engineering CS 580 B P E T 7**  
Textbooks: *Software Engineering Concepts*  
by Fairley, Richard E.  
*The Mythical Man-Month: Essays on Software Engineering*  
by Brooks, Frederick Phillips  
Compilers: Ada  
Pascal  
Computers: IBM 3031D  
Vax 750  
Languages: Ada  
Pascal

**Ada and Software Engineering CS 611 G P E Y 3**  
Textbooks: *Software Engineering with Ada*  
by Booch, Grady  
Compilers: ALSYS  
Computers: IBM at CLONE  
Languages: Ada

**Applications Systems Analysis CS 684 G P E B 6**

**Software Testing and Reliability CS 882 G P R Y 6**  
Compilers: Ada  
Pascal  
Computers: Vax  
Languages: Ada  
Pascal

**Requirements Specification and Design CS 8xx G P R Y**  
Computers: Vax

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**Union College School of Computer Science**  
Department of Electrical Engineering and Computer Science  
Schenectady, NY, 12308, United States

**Degrees:** BS, MS

**Contact:** Prof. Hannay, David  
Co-Chair EE/CS Department  
(518) 370-6270

**Update:** None

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**Courses:** **Software Engineering CSC-260 U P X Y**  
**Textbooks:** *C Primer*  
by Hancock, L. and Krieger, M.  
*Classics in Software Engineering*  
by Yourdon, Edward N.  
**Computers:** Vax

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**United States Air Force Academy**  
Department of Computer Science  
Program in Computer Science  
USAFA, CO, 80840, United States

**Degrees:** BS CS

**Contact:** Lt Col Richardson, William E.  
Deputy Department Head  
(303) 472-3590

**Update:** May 1987

**Courses:** **Systems Analysis and Design I Comp Sci 453 U P R Y 6**  
**Textbooks:** *Structured Systems Analysis: Tools and Techniques*  
by Gane, Chris and Sarson, Trish

**Systems Analysis and Design II Comp Sci 454 U P R Y 6**  
**Textbooks:** *The Practical Guide to Structured Systems Design*  
by Page-Jones, Meilir

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**University of Alabama at Birmingham School of Natural Sciences and Mathematics**  
Department of Computer and Information Sciences  
Birmingham, AL, 35294, United States

**Degrees:** BS, MS, PHD

**Contact:** Dr. Jones, Warren T.  
Professor and Chairman  
(205) 934-2213

**Update:** June 1987

**Courses:** **Formal Specifications and Software Development CS 520 G N R Y 8**  
**Textbooks:** *Software Engineering Concepts*  
by Fairley, Richard E.  
**Computers:** Sequent Balance 21000  
Vax 11/750  
**Languages:** Ada  
Modula-2

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**University of Alabama in Huntsville School of Mathematics and Natural Sciences**  
Computer Science Department  
Huntsville, AL, 35899, United States

**Degrees:** MS, PHD

**Contact:** Dr. Shiva, S. G.  
Chairman  
(215) 895-6088

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**Update:** None

**Courses:** **Software Engineering CS 650 G N E Y**

**Textbooks:** *Software Engineering*  
by Jensen, Randall W. and Tonies, Charles C.

**Advanced Software Engineering CS 750 G P E D**

**Textbooks:** *Software Engineering: Design, Reliability, and Management*  
by Shooman, Martin L.

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**University of Alaska-Fairbanks** College of Liberal Arts  
Department of Mathematical Sciences  
Program in Computer Science  
Fairbanks, AK, 99775-1110, United States

**Degrees:** BS CS

**Contact:** Prof. Gatterdam, R. W.  
Professor of Computer Science  
(907) 474-6174

**Update:** June 1987

**Courses:** **Software Engineering CS 401 U N E Y 5**

**Textbooks:** *Software Engineering*  
by Sommerville, Ian

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**University of Arizona** College of Arts and Sciences  
Department of Computer Science  
Tucson, AZ, 85721, United States

**Degrees:** MS CS, PHD CS

**Contact:** Prof. Andrews, Gregory R.  
Acting Department Head  
(602) 621-6613

**Update:** May 1987

**Courses:** **Software Tools Computer Science 430 G P R T 12**

**Textbooks:** *Introducing the UNIX System*  
by McGilton, Henry and Morgan, Rachel  
*The C Programming Language*  
by Kernighan, Brian and Ritchie, Dennis  
*The Elements of Programming Style*  
by Kernighan, Brian and Plauger, P.J.  
*The UNIX Programming Environment*  
by Kernighan, Brian and Pike, Rob  
*Writing Efficient Programs*  
by Bentley, Jon Louis

**Compilers:** C  
**Computers:** Vax running Berkeley Unix  
**Languages:** C

**Translators and Systems Software Computer Science 453 G P R T 12**

**Compilers:** C  
**Computers:** Vax running Berkeley Unix  
**Languages:** C

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**Advanced Topics In Software Systems Computer Science 630 G P E D 12**

Compilers: C  
Computers: Vax running Berkeley Unix  
Languages: C

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**University of Arkansas Fulbright College of Arts and Sciences**  
Department of Computer Science  
Program in Computer Science  
Fayetteville, AR, 72701, United States

**Degrees:** BS, MS

**Contact:** Prof. Starling, Greg  
Chairman  
(501) 575-6427

**Update:** August 1987

**Courses:** **Software Design and Development 4833 U N E Y 2**

Textbooks: *Software Design Strategies*  
by Bergland, Glenn D. and Gordon, Ronald D.

Compilers: Fortran  
PL/I

Pascal

Computers: IBM VM/CMS  
PC MS DOS

Languages: Fortran  
PL/I  
Pascal

**Software Development CSAS 4003 U P E D 2**

Compilers: PL/I

Pascal

Computers: IBM 4381

Languages: PL/I  
Pascal

**Structured Programming II CSAS 1003 U P R Y 2**

Compilers: Pascal

Computers: IBM 4381

Languages: Pascal

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**University of California, Berkeley College of Engineering**  
Department of Electrical Engineering and Computer Science  
Program in Computer Science  
Berkeley, CA, 94720, United States

**Degrees:** BEECS, MS, ME, PHD, DENG

**Contact:** Mrs. Webster, Betty  
CS Scheduling Assistant  
(415) 643-6130

**Update:** None

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**Courses: Introduction to Computer Science CS60C U P R O**

Textbooks: *LISP Craft*  
by Wilensky, Robert  
*Oh! Pascal!*  
by Cooper, Doug and Clancy, Michael  
Computers: LISP  
Pascal

**Data Structures and Advanced Programming CS160 U P R O**

Textbooks: *Advanced Programming and Problem Solving with Pascal*  
by Schneider, G. Michael and Bruell, Steven C.  
*Data Structures and Program Design*  
by Kruse, Robert L.  
Computers: Pascal

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**University of California, Irvine**

Department of Information and Computer Science  
Program in Computer Science  
Irvine, CA, 92717, United States

**Degrees:** BS, MS, PHD

**Contact:** Prof. Leveson, Nancy  
Associate Professor  
(714) 856-7403

**Update:** July 1987

**Courses: Project in System Design ICS 195 U N O T**

Textbooks: *Software Engineering Concepts*  
by Fairley, Richard E.  
Computers: Sun Unix  
Vax Unix

**Software Engineering A 245A G N X Y**

Textbooks: *Software Engineering Concepts*  
by Fairley, Richard E.  
Computers: Sun Unix  
Vax Unix

**Software Engineering B 245B G N X Y**

Textbooks: *IEEE Tutorial: Software Testing and Validation Techniques*  
by Miller, Edward and Howden, William E.

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**University of Central Florida (Entry 1)**

Department of Computer Engineering (CEBA 207)  
Program in Computer Engineering  
Orlando, FL, 32816, United States

**Degrees:** BS E, MS, MS E, PHD

**Contact:** Dr. Linton, Darrell G.  
Associate Professor of Engineering  
(305) 275-2236

**Update:** None

**Courses:** **Software Engineering I** ECM 5806 B P B Y  
**Textbooks:** *Ada: An Introduction*  
by Saib, S.  
*Software Engineering Concepts*  
by Fairley, Richard E.  
**Computers:** Gould 32/6780 (ISCS Ada translator)  
IBM 4381 (TeleSoft Ada compiler)  
Vax 11/750 (Ada compiler)

**Software Engineering II** ECM 6807 G P E Y  
**Textbooks:** *Ada: An Introduction*  
by Saib, S.  
*Software Engineering Concepts*  
by Fairley, Richard E.  
**Computers:** Gould 32/6780 (ISCS Ada translator)  
IBM 4381 (TeleSoft Ada compiler)  
Vax 11/750 (Ada compiler)

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**University of Central Florida (Entry 2) College of Arts and Sciences**  
Department of Computer Science  
Orlando, FL, 32816, United States

**Degrees:** MS CS, PHD CS

**Contact:** Prof. Cottrell, Larry K.  
Graduate Program Coordinator  
(305) 275-2341

**Update:** None

**Courses:** **Software Engineering** COP 5632 G N E X  
**Software Tools** COP 5682 G P E X

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**University of Colorado at Colorado Springs School of Engineering and Applied Science**  
Department of Computer Science  
Colorado Springs, CO, 80933, United States

**Degrees:** BS, MS

**Contact:** Dr. Sebesta, Robert W.  
Chair  
(303) 593-3325

**Update:** None

**Courses:** **Introduction to Software Engineering** CS 330 U N R T  
**Textbooks:** *Software Engineering with Ada and Modula-2*  
by Wiener, Richard, and Sincovec, Richard  
**Computers:** MicroVax

**Systems Engineering Management** CS 435/535 B N E A

**Software Engineering Laboratory** CS 436/536 B P E A

**Software Specification and Requirements Analysis** CS 531 G N E A

**Software Design CS 532 G N E A**

**Software Testing CS 533 G N E A**

**Software Maintenance CS 534 G N E A**

**Topics and Readings In Software Engineering CS 630 G N E D**

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**University of Delaware** College of Arts and Science  
Department of Computer and Information Sciences  
Newark, DE, 19716, United States

**Degrees:** BA, BS, MS, PHD

**Contact:** Prof. Bell, Eugene J.  
Assistant Professor  
(302) 451-1957

**Update:** None

**Courses:** **Advanced Topics: Software Engineering CIS 879 G N E O**  
**Computers:** C  
Modula-2  
Vax Unix

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**University of Denver** Faculty of Mathematical and Computer Sciences  
Department of Mathematics and Computer Science  
Program in Computer Science  
Denver, CO, 80208, United States

**Degrees:** MS, PHD

**Contact:** Prof. Dorn, William S.  
Chairperson  
(303) 871-2392

**Update:** May 1987

**Courses:** **Software Engineering I COMP 4380 G P E O 1**  
**Compilers:** Pascal  
**Computers:** Vax 11/750  
**Languages:** Pascal

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**University of Evansville** School of Engineering and Computer Science  
Department of Computing Science  
Evansville, IN, 47714, United States

**Degrees:** BA, BS, MS CSED, MS MIS

**Contact:** Dr. Mitchell, William  
(812) 479-2650

**Update:** None

**Courses:** **Software Engineering CS 325 U P R O**  
**Software Engineering Project CS 494/495/497 U P R T**

**Software Engineering CS 521 G N B O**

**Textbooks:** *Software Engineering: Design, Reliability, and Management*  
by Shooman, Martin L.

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**University of Houston - Clear Lake School of Sciences and Technologies**

Department of Technologies  
Houston, TX, 77058, United States

**Degrees:** BA CIS, BS CS, MA CIS, MS CS

**Contact:** Dr. Collins, George C.  
Director, Programs in Technologies  
(713) 488-9386

**Update:** None

**Courses:** **Ada Programming Language CSCI 3432 U P R T**

**Textbooks:** *Ada as a Second Language*  
by Cohen, Norman H.  
*Reference Manual for the Ada Programming Language*  
ANSI/MIL-STD-1815A

**Computers:** Vax 11/785

**Topic: Software Engineering Methodology CSCI 4931 U P E Y**

**Textbooks:** *Handbook of Software Engineering*  
by Vick, Charles R. and Ramamoorthy, C. V.  
*Software Engineering*  
by Sommerville, Ian

**Topic: Software Engineering Tools and Environments CSCI 5931 G P E Y**

**Computers:** AIE  
ALS  
Rational

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**University of Idaho College of Engineering**

Department of Computer Science  
Programs in Scientific Computing and Data Processing  
Moscow, ID, 83843, United States

**Degrees:** BS CS, MS CS

**Contact:** Dr. Dickinson, John  
Chairman  
(208) 885-6589

**Update:** October 1987

**Courses:** **CS Design I CS 480 U N R T 6**

**Textbooks:** *Software Engineering: A Practitioner's Approach*  
by Pressman, Roger S.

**Computers:** HP 9000  
HP 9836  
IBM 4381  
IBM PC  
Vax 11/780



Languages: COBOL  
Fortran  
Lisp  
Pascal  
dBase  
rBaseE

**CS Design II CS 481 U N R T 6**

Textbooks: *Software Engineering: A Practitioner's Approach*  
by Pressman, Roger S.

Computers: HP 9000  
HP 9836  
IBM 4381  
IBM PC  
Vax 11/780

Languages: COBOL  
Fortran  
Lisp  
Pascal  
dBase  
rBase

**Software Engineering CS 410/510 B N E Y 6**

Textbooks: *Software Engineering: A Practitioner's Approach*  
by Pressman, Roger S.

**Model for Software Project Management (Software Metrics) CS 511 G P E Y 3**

Textbooks: *Software Engineering Metrics and Models*  
by Conte, Samuel Daniel, Dunsmore, H.E., and Shen, V.Y.

**Software Quality Assurance and Testing CS 404/504 B P E Y 1**

Textbooks: *Software System Testing and Quality Assurance*  
by Beizer, Boris

Compilers: Turbo Pascal  
Computers: IBM PC  
Languages: Pascal

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**University of Illinois at Chicago College of Engineering**

Department of Electrical Engineering and Computer Science (M/c 154)  
Program in Software Engineering  
Chicago, IL, 60680, United States

**Degrees:** MS CS, PHD CS

**Contact:** Dr. Chang, Carl K.  
Assistant Professor  
(312) 996-4860

**Update:** May 1987

**Courses: Introduction to Software Engineering EECS 274 U P R O 7**

Textbooks: *Software Engineering*  
by Sommerville, Ian

Compilers: Unix BSD 4.2 C  
Computers: Vax 11/750

**Advanced Topics in Software Engineering EECS 481 G P E Y 3**

Textbooks: *Software Engineering: Analysis and Verification*  
by Lewis

Compilers: Unix BSD 4.2 C  
Computers: Vax 11/750

**Software Engineering Environments EECS 482 G P E Y 4**  
Textbooks: *IEEE Tutorial on Software Engineering Environments*  
*Software Engineering Environments*  
by Hunke, H.  
Compilers: Unix BSD 4.2 C  
Computers: Vax 11/750

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**University of Illinois at Urbana-Champaign**  
Department of Computer Science  
Urbana, IL, 61801, United States

**Degrees:** MS, MS TCS, MCS, PHD

**Contact:** Dr. Kamin, Samuel N.  
Associate Professor of Computer Science  
(217) 333-8069

**Update:** May 1987

**Courses:** **Software Engineering CS 327 B P E Y 5**  
Textbooks: *Software Engineering: A Practitioner's Approach*  
by Pressman, Roger S.  
*Software Engineering Concepts*  
by Fairley, Richard E.

Compilers: C  
Lisp  
Pascal  
Computers: IBM PC/RT

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**University of Iowa School of Engineering**  
Department of Electrical and Computer Engineering  
Iowa City, IA, 52242, United States

**Degrees:** BS EE, MS, PHD

**Contact:** Prof. Reddy, S. M.  
Professor and Chairman  
(319) 353-7379

**Update:** None

**Courses:** **Introduction to Software Design 55:033 U P R T**  
Textbooks: *Introduction to Programming and Problem Solving with Pascal*  
by Schneider, G. Michael, Weingart, Steven W., and Perlman, David M.  
*M68000 8-, 16-, 32-Bit Microprocessor's Programmer's Reference Manual*  
by Motorola, Inc.  
Computers: M68000 based microprocessor systems  
Vax 11/750 (4.2 BSD Unix) Cross development environment

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**University of Maryland Division of Computer, Mathematical, and Physical Sciences**  
Department of Computer Science  
College Park, MD, 20742, United States

**Degrees:** BS, MS, PHD

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**Contact:** Dr. Rombach, H. Dieter  
Assistant Professor  
(301) 454-8974

**Update:** May 1987

**Courses:** **Software Design and Development CMSC 435 U N E T 5**

**Textbooks:** *Software Engineering Concepts*  
by Fairley, Richard E.

**Computers:** IBM mainframe  
Vax

**Languages:** Ada  
C  
Pascal

**Software Design and Development In Ada CMSC 838 G P E D 2**

**Textbooks:** *Programming in Ada*  
by Barnes, John Gilbert Presslie  
*Software Engineering with Ada*  
by Booch, Grady

**Compilers:** Verdex Ada

**Computers:** Vax 8600

**Languages:** Ada

**A Quantitative Approach to Software Management and Engineering CMSC 735 G P E Y 1**

**Textbooks:** *IEEE Tutorial on Models and Metrics for Software Management and Engineering*  
by Basili, Victor R.  
*Software Engineering Metrics and Models*  
by Conte, Samuel Daniel, Dunsmore, H.E., and Shen, V.Y.

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**University of Massachusetts School of Engineering**  
Department of Electrical and Computer Engineering  
Program in Electrical Engineering  
Amherst, MA, 01003, United States

**Degrees:** BS CSE, BS EE, MS, PHD

**Contact:** Prof. Pradhan, Dhiraj K.  
Professor  
(413) 545-0160

**Update:** None

**Courses:** **Design and Analysis of Computer Algorithm ECE 672 G P E D**

**Textbooks:** *The Design and Analysis of Computer Algorithms*  
by Aho, Alfred V., Hopcroft, John E. and Ullman, Jeffrey D.

**Computers:** Data General Eagle

**Programming Structures ECE 544 G P E T**

**Algorithms and Data Structures ECE 597B G N E Y**

**Textbooks:** *Algorithms*  
by Sedgewick, Robert

**Computers:** Vax

**Performance Evaluations ECE 673 G P E Y**

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**University of Massachusetts at Boston**

Department of Mathematics and Computer Science  
M.S. in Computer Science  
Boston, MA, 02125, United States

**Degrees:** BS, MS

**Contact:** Dr. Simovici, Dan  
Professor and Director of the Graduate Program  
(617) 929-7966

**Update:** None

**Courses:** **Software Engineering I** 650 G P R Y  
Computers: Unix on Vax 11/750

**Software Engineering II** 660 G P R Y  
Computers: Unix on Vax 11/750

**Software Engineering Laboratory I** 651 G P R Y  
Computers: Unix on Vax 11/750

**Software Engineering Laboratory II** 661 G P R Y  
Computers: Unix on Vax 11/750

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**University of Michigan-Dearborn School of Engineering**  
Department of Industrial and Systems Engineering  
Dearborn, MI, 48128, United States

**Degrees:** BSE ISE, MSE ISE

**Contact:** Dr. Kachhal, S. K.  
Chairman  
(313) 593-5272

**Update:** None

**Courses:** **Software Engineering I&SE** 553 G P E Y  
Textbooks: *Controlling Software Projects: Management Measurement and Estimation*  
by DeMarco, Tom  
*Software Design and Development*  
by Gilbert, Philip  
Computers: Michigan Terminal System (Amdahl)

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**University of Minnesota Institute of Technology**  
Department of Computer Science  
Program in Computer Science  
Minneapolis, MN, 55455, United States

**Degrees:** BS, MS, PHD

**Contact:** Dr. Fox, David  
Head, Computer Science  
(612) 625-0726

**Update:** June 1987

**Courses: Software Engineering (I) Csci 5180 B P E Y 5**

Textbooks: *Abstraction and Specification in Program Development*  
by Liskov, Barbara and Guttag, John  
Compilers: Ada  
Computers: Sun  
Languages: Ada  
MSG

**Software Engineering (II) Csci 5181 B P E Y 5**

Textbooks: *Software Engineering with Ada*  
by Booch, Grady  
Compilers: Ada  
Computers: Sun  
Languages: Ada  
MSG

**Software Engineering (III) Csci 5199 B P E Y 2**

Textbooks: *Software Engineering with Ada*  
by Booch, Grady  
*Software Testing and Evaluation*  
by DeMillo, R.A. et al.  
*Software Validation: Inspection - Testing - Verification - Alternatives*  
by Hausen, H.L.  
*The Art of Software Testing*  
by Myers, Glenford J.  
Compilers: Ada  
Computers: Sun  
Languages: Ada  
MSG

**Software Requirement, Design and Maintenance Csci 5199/8199 B P E B 2**

Textbooks: *Handbook of Software Engineering*  
by Vick, Charles R. and Ramamoorthy, C.V.  
*Software Design Strategies*  
by Bergland, Glenn D. and Gordon, Ronald D.

**Software Verification and Validation, Metrics Csci 5199/8199 B P E B 2**

Textbooks: *IEEE Tutorial: Software Testing and Validation Techniques*  
by Miller, Edward and Howden, William E.  
*Software Engineering Metrics and Models*  
by Conte, Samuel Daniel, Dunsmore, H.E., and Shen, V.Y.  
*Software Testing and Evaluation*  
by DeMillo, R.A. et al.  
*Software Validation: Inspection - Testing - Verification - Alternatives*  
by Hausen, H.L.  
*The Art of Software Testing*  
by Myers, Glenford J.

**Software Engineering with Ada Csci 5199/8199 B P E Y 2**

Textbooks: *Software Engineering with Ada*  
by Booch, Grady  
Compilers: Ada  
Computers: Sun  
Languages: Ada

**Software Specification Csci 5199/8199 B P E Y 2**

Textbooks: *Software Specification Techniques*  
by Gehani, Narain and McGettrick, Andrew D.

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**University of New Mexico - Los Alamos**  
Department of Computer Science  
Los Alamos, NM, 87544, United States

**Degrees:** AAS CS

**Contact:** Ms. Coop, Angela  
Associate Director for Instruction  
(505) 662-5919

**Update:** July 1987

**Courses:** Introduction to Software Engineering CS 260 U P R Y 1  
**Textbooks:** *Software Engineering*  
by Sommerville, Ian  
**Compilers:** C  
Unix BSD Pascal  
**Computers:** Vax 11/750  
**Languages:** Ada  
C  
Pascal

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**University of North Carolina at Chapel Hill School of Arts and Sciences**  
Department of Computer Science  
Chapel Hill, NC, 27514, United States

**Degrees:** BS, MS, PHD

**Contact:** Prof. Brooks, F. P.  
Kenan Professor  
(919) 962-2148

**Update:** June 1987

**Courses:** Software Engineering Laboratory Comp 145 B P R Y 22  
**Textbooks:** *IEEE Tutorial on Software Design Techniques*  
by Freeman, Peter and Wasserman, Anthony I.  
*The Mythical Man-Month: Essays on Software Engineering*  
by Brooks, Frederick Phillips  
**Computers:** Masscomps  
Suns  
Vaxen  
**Languages:** C  
C++  
Smalltalk

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**University of Oregon School of Arts and Sciences**  
Department of Computer and Information Science  
Eugene, OR, 97403, United States

**Degrees:** BA, BS, MA, MS, PHD



**Contact:** Prof. Eliason, Alan  
Associate Professor  
(503) 686-4408

**Update:** May 1987

**Courses:** **Software Methodology I** CIS 422 U P R T 10

**Textbooks:** *Software Engineering Concepts*  
by Fairley, Richard E.  
*The Practical Guide to Structured Systems Design*  
by Page-Jones, Meilir  
*Writing Efficient Programs*  
by Bentley, Jon Louis

**Computers:** Apollo workstations  
Tektronic 4404 Pegasus  
Vax 11/750

**Languages:** C  
RAPID  
Smalltalk

**Software Methodology II** CIS 423 U P E O 10

**Textbooks:** *Software Engineering Concepts*  
by Fairley, Richard E.  
*The Practical Guide to Structured Systems Design*  
by Page-Jones, Meilir  
*Writing Efficient Programs*  
by Bentley, Jon Louis

**Computers:** Apollo workstations  
Microcomputers  
Tektronic 4404 Pegasus  
Vax 11/750

**Languages:** C  
RAPID  
Smalltalk

**Software Engineering** CIS 510 G N R Y 10

**Textbooks:** *Interactive Programming Environments*  
by Barstow, David R., Shrobe, Howard E., and Sandewall, Erik  
*Proceedings*  
by ACCA  
*Software Specification Techniques*  
by Gehani, Narain and McGettrick, Andrew D.

**Computers:** Vax 11/750

**Languages:** C  
RAPID  
Smalltalk

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**University of Ottawa** Faculty of Science and Engineering  
Department of Computer Science  
Ottawa, ON, K1N 9B4, Canada

**Degrees:** BS, MCS

**Contact:** Dr. Raymond, Jacques  
Chairman of the Department  
(613) 564-5420

**Update:** None

**Courses:** **Problem Solving and Software Design** CSI 1100 U N X Y  
**Textbooks:** *Algorithm Design I*

by Birta, L.G. and Probert, R.L.  
*CPN User's Manual*  
by Hickey, Peter  
*Pascal Plus Data Structures*  
by Dale, N. and Lilly, S.C.

**Computing Systems Design and Implementation** CSI 1101 U P X Y

**Software Engineering** CSI 3111 U N X O

Textbooks: *Software Engineering Methodology*  
by Turner, Ray

**Software Engineering: Practice** CSI 4112 U N X X

Textbooks: *Software Engineering Concepts*  
by Fairley, Richard E.

**Software Testing: Theory and Practice** CSI 5111 G N X X

**Software Engineering** CSI 5112 G N X X

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**University of Pennsylvania** School of Engineering and Applied Science  
Department of Computer and Information Science  
Program in Computer Science and Engineering  
Philadelphia, PA, 19104, United States

**Degrees:** BSE

**Contact:** Dr. Badler, Norman I.  
Undergraduate Chair  
(215) 898-5862

**Update:** None

**Courses:** **Interactive System Design** CSE 280 U P E B

Textbooks: *Interactive Programming Environments*  
by Barstow, David R., Shrobe, Howard E., and Sandewall, Erik

Computers: Color Graphics  
IBM PC/XT/AT  
Vax 8650

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**University of Pittsburgh** School of Library and Information Science  
Interdisciplinary Department of Information Science  
Pittsburgh, PA, 15260, United States

**Degrees:** BS, MS, PHD

**Contact:** Prof. Williams, James G.  
Chairman  
(412) 624-9418

**Update:** June 1987

**Courses:** **Software Engineering** IS 279 G P E Y 4

Textbooks: *Program Development*  
by Gilbert, Philip

Compilers: C  
COBOL  
Fortran  
Pascal

Computers: IBM PC  
Mac  
Vax 780  
Vax 8650  
Languages: C  
Pascal

**Systems Analysis, Design and Development IS 272 G P E O 5**

Textbooks: *Systems Development: Analysis, Design, and Implications*  
by Eliason, Alan L.  
Compilers: C  
COBOL  
Fortran  
Pascal  
Computers: IBM PC  
Mac  
Vax 780  
Vax 8650  
Languages: C  
Pascal

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**University of Regina Faculty of Science**  
Department of Computer Science  
Regina, SK, S4S 0A2, Canada

**Degrees:** BA, BS, MS

**Contact:** Dr. Maguire, R. B.  
Department Head  
(306) 584-4632

**Update:** October 1987

**Courses: Business Information Systems CS270 U P R T 10**

Textbooks: *Systems Analysis and Design*  
by Capron, H.L.  
Computers: IBM PC AT  
Languages: Accelerator InTech

**Introduction to Systems Programming CS330 U P E Y 5**

Textbooks: *Operating System Concepts*  
by Peterson, James L. and Silberschatz, Abraham  
Compilers: Unix C  
Computers: Berkeley 4.2 Unix on Vax 750  
Languages: C programming language

**Advanced Systems Analysis and Design CS372 U P E Y 3**

Textbooks: *The Practical Guide to Structured Systems Design*  
by Page-Jones, Meilir  
Compilers: Unix C  
Computers: Berkeley 4.2 Unix on Vax 750  
Languages: C programming language

**Project Management for Data Processing Applications CS373 U P E B 1**

Textbooks: *Information Resource Management*  
by Hussain, Donna and Hussain, K.M.

**Advanced Concepts in Programming Languages CS440 U P E Y 4**

Textbooks: *Programming Language Concepts*  
by Ghezzi, Carlo and Jazayeri, Mehdi  
Compilers: Ada

Computers: Lisp  
              Prolog  
Languages: Vax 8600  
              Ada  
              Lisp  
              Prolog

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**University of Saskatchewan School of Engineering**  
Department of Computational Science  
Program in Computer Science  
Saskatoon, SK, S7N 0W0, Canada

**Degrees:** BS CS, BC CS, BO

**Contact:** Prof. Sorenson, Paul  
Head  
(306) 966-4886

**Update:** None

**Courses:** **Computer Systems CMPT 230.6 U P R Y**  
Computers: Vax 8600

**Information Systems Analysis and Design CMPT 477.6 U P E Y**

Textbooks: *Structured Design*  
by Yourdon, Edward, and Constantine, Larry

Computers: PC (Zeniths)  
Sun workstations  
Vax 8600

**Information Systems CMPT 876.3 G P E Y**

Computers: Sun workstations  
Vax 8600

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**University of South Florida College of Engineering**  
Department of Computer Science and Engineering  
Tampa, FL, 33620, United States

**Degrees:** MS, PHD

**Contact:** Dr. Varanasi, M. R.  
Graduate Program Coordinator  
(813) 974-3033

**Update:** None

**Courses:** **Software Engineering I - Basic Principles and Formal Methods COP 6630 G N E B**

**Software Engineering II - Tools and Applied Techniques COP 6634 G P E B**

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**University of Southern California (Entry 1) School of Engineering**  
Department of Industrial and Systems Engineering  
Program in Human Factors  
Los Angeles, CA, 90089, United States

**Degrees:** MS ISE

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**Contact:** Dr. Chigrell, Mark H.  
(213) 743-2705

**Update:** None

**Courses:** **Intelligent Interfaces ISE 578 G P E Y**  
Textbooks: *Turbo Prolog*  
Computers: IBM PCs with 512K and graphics running Turbo Prolog

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**University of Southern California (Entry 2) School of Engineering**  
Computer Science Department  
Los Angeles, CA, 90089, United States

**Degrees:** MS CS, PHD CS

**Contact:** Dr. Scacchi, Walt  
Assistant Professor  
(213) 743-5501

**Update:** None

**Courses:** **Introduction to Software Engineering CS 201L U P R T**  
Textbooks: *Software Tools in Pascal*  
by Kernighan, Brian and Plauger, P.J.  
*The Practical Guide to Structured Systems Design*  
by Page-Jones, Meilir  
Computers: DEC Vax 11/750  
IBM PC  
IBM XT

**Design and Construction of Large Software Systems CS 477L U P E Y**  
Textbooks: *Software Engineering Concepts*  
by Fairley, Richard E.  
*The C Programming Language*  
by Kernighan, Brian and Richie, Dennis  
*Writing Efficient Programs*  
by Bentley, Jon Louis  
Computers: AT&T workstations  
DEC Vax 11/750

**Management of Computing: Theory and Practice CS 510 G N E Y**  
Computers: AT&T workstations  
DEC Vax 11/750  
IBM AT  
IBM PC  
IBM RT  
IBM XT

**Design and Construction of Large Software Systems CS 577a G N E Y**  
Textbooks: *IEEE Tutorial on Software Design Techniques*  
by Freeman, Peter and Wasserman, Anthony I.  
*Interactive Programming Environments*  
by Barstow, David R., Shrobe, Howard E., and Sandewall, Erik  
*The UNIX Programming Environment*  
by Kernighan, Brian and Pike, Rob  
Computers: AT&T workstations  
DEC Vax 11/750

**Design and Construction of Large Software Systems CS 577b G P E Y**

Textbooks: *A Practical Guide to Unix System V*  
by Sobell, Mark  
*Advanced Unix Programming*  
by Rockkind  
*C, a Reference Manual*  
by Harbison, Samuel P. and Steele, Guy L.  
Computers: AT&T workstations  
DEC Vax 11/750

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**University of Tennessee at Chattanooga School of Engineering**  
Department of Computer Science  
Chattanooga, TN, 37403, United States

**Degrees:** BS CS, MS CS

**Contact:** Dr. Thompson, Jack  
Head, Computer Science  
(615) 755-4329

**Update:** July 1987

**Courses:** **Software Engineering I 350 U P R O 8**  
Textbooks: *Systems Analysis and Design Methods*  
by Whitten, Bentley, and Ho

Compilers: PL/I  
Computers: IBM 4381  
Languages: PL/I

**Software Engineering II 450 B P E Y 1**  
Textbooks: *Software Engineering Concepts*  
by Fairley, Richard E.

Compilers: PL/I  
Computers: IBM 4381  
Languages: PL/I

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**University of Texas at Austin College of Natural Science**  
Department of Computer Science  
Austin, TX, 78712, United States

**Degrees:** BA, MS, PHD

**Contact:** Dr. Werth, Laurie  
Lecturer  
(512) 471-7316

**Update:** May 1987



**Courses:** **Software Engineering CS378 U N E T 6**  
**Textbooks:** *Software Engineering: A Practitioner's Approach*  
by Pressman, Roger S.  
*Software Engineering Concepts*  
by Fairley, Richard E.  
**Compilers:** DFD Tools  
Pascal  
**Computers:** DEC 20  
Vax with Unix or VMS  
**Languages:** Ada

**Large Scale Software Development CS 395T G N E B 2**  
**Textbooks:** *Managing a Programming Project*  
by Metzger, Philip W.

**Software Engineering Economics EE 382M G N E Y 3**  
**Textbooks:** *Software Engineering Economics*  
by Boehm, Barry W.  
*Software Engineering Metrics and Models*  
by Conte, Samuel Daniel, Dunsmore, H.E., and Shen, V.Y.

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**University of Victoria School of Arts and Sciences**  
Department of Computer Science  
Victoria, BC, V8W 2Y2, Canada

**Degrees:** BS, MS

**Contact:** Dr. Hoffman, Daniel  
Assistant Professor  
(604) 721-7222

**Update:** June 1987

**Courses:** **Software Engineering CSC 365 U P R T 5**  
**Textbooks:** *The Mythical Man-Month: Essays on Software Engineering*  
by Brooks, Frederick Phillips

**Compilers:** C  
Pascal on Unix 4.2  
**Computers:** Pyramid  
Vax 11/780  
**Languages:** C  
Pascal

**Implementation of Software Engineering Methods CSC B P E Y 2**  
**Compilers:** C  
**Computers:** Pyramid  
Sun  
Vax  
**Languages:** C

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**University of Virginia School of Engineering and Applied Science**  
Department of Computer Science  
Charlottesville, VA, 22903, United States

**Degrees:** MS CS, MCS, PHD

**Contact:** Prof. Cook, Robert P.  
Chairman  
(804) 924-7605

**Update:** June 1987

**Courses:** Software Engineering Laboratory CS 485 U P R Y 5

**Textbooks:** *Software Engineering Concepts*  
by Fairley, Richard E.  
**Compilers:** Sheffield Pascal  
**Computers:** Prime  
**Languages:** Pascal

Software Engineering CS 685 G P E Y 5

**Textbooks:** *Software Engineering Concepts*  
by Fairley, Richard E.  
**Compilers:** AT&T C  
Sheffield Pascal  
**Computers:** AT&T 3B5s  
Prime  
**Languages:** Ada  
C  
Pascal

Software Engineering CS 885 G N E D

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University of Washington College of Arts and Sciences  
Department of Computer Science  
Seattle, WA, 98195, United States

**Degrees:** BS CS, MS CS, PHD CS

**Contact:** Prof. Patis, Richard  
Acting Assistant Professor  
(206) 545-1218

**Update:** October 1987

**Courses:** Software Engineering CSci 503 G P E Y 2

**Textbooks:** *Software Engineering Concepts*  
by Fairley, Richard E.  
*The Mythical Man-Month: Essays on Software Engineering*  
by Brooks, Frederick Phillips

**Compilers:** Turbo Pascal  
Unix C  
Xerox XDE

**Computers:** IBM PC/AT  
Vax 785  
Xerox Dandelion

**Languages:** C  
Mesa  
Pascal

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**University of Waterloo Faculty of Mathematics**  
Department of Computer Science  
Waterloo, ON, N2L 3G1, Canada

**Degrees:** BM, MM, PHD

**Contact:** Dr. Dymont, Doug  
Associate Chairman  
(519) 888-4451

**Update:** None

**Courses:** **Applications Software Engineering CS 430 U P E O**  
Textbooks: *Software Engineering Concepts*  
by Fairley, Richard E.

**Business System Analysis CS 432 U P E Y**

**Software System Design and Implementation CS 446 and CS 646 B P E Y**  
Textbooks: *Software Engineering: A Practitioner's Approach*  
by Pressman, Roger S.

**Techniques in Systems Analysis CS 482 U P E O**

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**University of Wisconsin-Madison College of Engineering**  
Department of Industrial Engineering  
Madison, WI, 53706, United States

**Degrees:** MS, PHD

**Contact:** Prof. Gustafson, David H.  
Department Chairman  
(608) 262-3768

**Update:** October 1987

**Courses:** **Computer Methods in Industrial Engineering 490-612-9 G N B Y 8**  
Textbooks: *Software Engineering*  
by Sommerville, Ian  
Compilers: Turbo Pascal  
Computers: IBM PC  
Languages: Pascal

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**University of Wisconsin-Milwaukee School of Engineering and Applied Science**  
Department of Electrical Engineering and Computer Science  
Milwaukee, WI, 53201, United States

**Degrees:** MS CS, PHD

**Contact:** Dr. Vairavan, K.  
Chair - CS  
(414) 963-5183

**Update:** None

**Courses:** **Introduction to Software Engineering 262-536 B P X Y**  
Textbooks: *Software Engineering: A Practitioner's Approach*

by Pressman, Roger S.  
*The C Programming Language*  
by Kernighan, Brian and Ritchie, Dennis  
Computers: 68000s  
Vax 750 (Unix)

**Introduction to Operating Systems 262-537 B P X Y**  
Textbooks: *Operating System Elements: A User Perspective*  
by Calingaert, Peter  
Computers: 68000 based system  
Vax 750

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**University of Wyoming College of Arts and Sciences**  
Computer Science Department  
Program in Computer Science  
Laramie, WY, 82071, United States

**Degrees:** BA, BS, MS

**Contact:** Dr. Petrick, Stanley  
(307) 766-5190

**Update:** October 1987

**Courses:** **Software Engineering COSC 699 B P X Y 1**  
Textbooks: *Software Engineering*  
by Sommerville, Ian  
Computers: CDC Cyber 840  
PC  
Vax 11/785

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**Utah State University College of Science**  
Department of Computer Science  
Logan, UT, 84322-4205, United States

**Degrees:** BS, MS

**Contact:** Prof. Jones, Greg  
Associate Professor  
(801) 750-3267

**Update:** October 1987

**Courses:** **Software Development/Implementation CS 655-6 G P E O 8**  
Textbooks: *Software Engineering Concepts*  
by Fairley, Richard E.  
Compilers: TeleSoft Ada  
Computers: HP 9000  
Macintosh  
PC clones  
Vax 8500  
Languages: Ada

**Software Systems CS 456 U P R O 7**  
Textbooks: *Software Engineering Methodology*  
by Turner, Ray  
Compilers: VMS  
Computers: Vax 8500  
Languages: Pascal

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**Vanderbilt University School of Engineering**  
Department of Computer Science  
Nashville, TN, 37235, United States

**Degrees:** BA, BS, MS, ME, PHD

**Contact:** Dr. Schach, Stephen R.  
Director of Graduate Studies  
(615) 322-2924

**Update:** May 1987

**Courses:** **Software Engineering CS352 G P E Y 2**  
**Textbooks:** *Ada, an Advanced Introduction*  
by Gehani, Narain  
**Compilers:** Vax Ada  
**Computers:** Vax 11/785  
**Languages:** Ada

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**Villanova University (Entry 1) College of Liberal Arts and Sciences**  
Mathematical Sciences Department  
Villanova, PA, 19085, United States

**Degrees:** BS CS, BS M, MS CS, MA M

**Contact:** Dr. Joyce, Daniel  
(215) 645-7344

**Update:** June 1987

**Courses:** **Software Engineering CSC 4700 U P E Y 1**  
**Textbooks:** *Software Engineering Concepts*  
by Fairley, Richard E.  
*The Mythical Man-Month: Essays on Software Engineering*  
by Brooks, Frederick Phillips  
**Compilers:** Pascal  
**Computers:** Vax network  
**Languages:** Pascal  
  
**Software Engineering CSC 8540 G N E T 1**  
**Textbooks:** *Software Engineering: A Practitioner's Approach*  
by Pressman, Roger S.

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**Virginia Commonwealth University School of Arts and Sciences**  
Department of Mathematical Sciences  
Program in Computer Science  
Richmond, VA, 23284, United States

**Degrees:** BA, BS, MA, MS

**Contact:** Dr. Haver, William E.  
Department Chairman  
(804) 257-1301

**Update:** None

**Courses:** **Software Engineering 591 B P E D**  
**Textbooks:** *Software Engineering*

Computers: by Sommerville, Ian  
IBM 3170  
IBM PC  
IBM PC/AT  
Pyramid mini-computer network

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**Washington State University College of Sciences and Arts**  
Department of Computer Science  
Pullman, WA, 99164, United States

**Degrees:** BS, MS, PHD

**Contact:** Dr. Benson, David B.  
Professor  
(509) 335-2706

**Update:** None

**Courses:** **Software Development CptS 422 U P E Y**

**Textbooks:** *C: An Advanced Introduction*  
by Gehani, Narain  
*Introducing the UNIX System*  
by McGilton, Henry and Morgan, Rachel  
*Software Engineering: A Practitioner's Approach*  
by Pressman, Roger S.  
*The Mythical Man-Month: Essays on Software Engineering*  
by Brooks, Frederick Phillips  
*The UNIX C Shell Field Guide*  
by Anderson, Gail and Anderson, Paul  
**Computers:** Unix systems

**Software Development Lab CptS 423 U P E Y**

**Textbooks:** *C by Dissection: The Essentials of C Programming*  
by Kelley, Al and Pohl, Ira  
*Introducing the UNIX System*  
by McGilton, Henry and Morgan, Rachel  
**Computers:** Unix systems

**Verification CptS 522 G P E Y**

**Textbooks:** *The Science of Programming*  
by Gries, David

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**Washington University Sever Institute of Technology**  
Department of Computer Science  
St. Louis, MO, 63130, United States

**Degrees:** BS, MS, SCD

**Contact:** Dr. Roman, Gruia-Catalin  
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(314) 889-6190

**Update:** May 1987

**Courses:** **Programming Systems and Language CS 455 B P R O 10**

**Textbooks:** *Formal Specification of Programming Languages*  
by Pagan  
*Programming Languages, Design and Implementation*  
by Pratt



Compilers: Franz Lisp  
Prolog  
TeleSoft Ada  
Computers: Vax 780  
Languages: Ada  
Lisp  
Prolog

**Software Engineering Workshop CS 456 B P R O 10**

Textbooks: *Software Engineering with Modula-2 and Ada*  
by Wiener, Richard and Sincovec, Richard  
Compilers: TeleSoft Ada  
Computers: Vax 11/750  
Languages: Ada

**Distributed System Design CS 576S G P E X 1**

Textbooks: *Coordinated Computing: Tools and Techniques for Distributed Software*  
by Filman, Robert E. and Friedman, Daniel P.

**Modular Programming CS 545S G P E B 4**

Textbooks: *Programming in Ada*  
by Barnes, John Gilbert Presslie  
*Programming in Modula-2*  
by Wirth, Niklaus  
Compilers: DECSRC Modula-24  
TeleSoft Ada (V1.5)  
Computers: Vax 780  
Languages: Ada  
Modula-2  
Smalltalk

**Advanced Software Engineering CS 656S G N E O 7**

**Research Seminar on Distributed System Design CS 673.1 - CS 673.6 G N E T 1**

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Wayne State University College of Engineering  
Department of Electrical and Computer Engineering  
Detroit, MI, 48202, United States

Degrees: BS, MS, PHD

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Acting Chair  
(313) 577-3920

Update: None

Courses: **Engineering Software Design ECE 660 G P X Y**  
Textbooks: *Software Engineering: A Practitioner's Approach*  
by Pressman, Roger S.  
Computers: Amdhal 470 V8  
IBM 3081  
IBM 4381  
MTS (Michigan Terminal System)

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**West Virginia College of Graduate Studies (WVCOGS) Engineering and Science Division**  
Information Systems  
Institute, WV, 25112, United States

**Degrees:** MS

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**Update:** May 1987

**Courses:** **Systems Analysis Techniques IS 605 G N R Y 4**  
Textbooks: *Structured Analysis Methods for Computer Information Systems*  
by Teague, Lavette C. and Pidgeon, Christopher

**System Design IS 610 G P R Y 5**  
Textbooks: *Business Computer Systems Design*  
by Dolan  
Computers: VM/CMS

**Software Engineering Principles IS 625 G P E Y 1**  
Textbooks: *Software Engineering with Ada*  
by Booch, Grady  
Compilers: Vax Ada  
Computers: Vax  
Languages: Ada

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**West Virginia University College of Arts and Sciences**  
Department of Statistics and Computer Science  
Program in Computer Science  
Morgantown, WV, 26506, United States

**Degrees:** BS, MS

**Contact:** Prof. Butcher, Donald F.  
Professor and Chairman  
(304) 293-3607

**Update:** June 1987

**Courses:** **Software Engineering CS 275 U P E Y 1**  
Textbooks: *Software Engineering*  
by Sommerville, Ian  
Languages: Ada

**Ada with Software Engineering CS 291/391 B P E Y 2**  
Textbooks: *Software Engineering with Ada*  
by Booch, Grady  
Compilers: Digital Ada  
Computers: Vax 11/780 under VMS  
Languages: Ada

**Principles of Software Development CS 170 U P E Y 4**  
Compilers: PL/I optimizing compiler on Vax PL/I  
Computers: IBM 3081  
Vax 11/780  
Languages: PL/I and System Utilities

**Software Engineering in Data Communications CS 350 G P E Y 3**

**Compilers:** ALSYS Ada  
IBM PC Assembler  
Lattice C  
RT-11 Assembler  
Vax Unix C

**Computers:** IBM PC/AT  
IBM PC/XT  
IBM PCs  
PDP 11/23s  
Vax 11/750

**Languages:** Ada  
Assembly  
C

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**Western Michigan University**

Department of Computer Science  
Program in Computer Science  
Kalamazoo, MI, 49008, United States

**Degrees:** BS CS, MS CS

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**Update:** October 1987

**Courses:** **Software Systems Development 544 B P B O 7**

**Textbooks:** *Software Engineering: A Practitioner's Approach*  
by Pressman, Roger S.  
*The Mythical Man-Month: Essays on Software Engineering*  
by Brooks, Frederick Phillips

**Compilers:** COBOL  
Fortran  
Pascal

**Computers:** DEC Tops system 10  
MS DOS  
Macintosh  
Vax Unix  
Vax VMS

**Languages:** COBOL  
Fortran  
Pascal

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**Wright State University**

College of Science and Mathematics/College of Engineering and Computer Sci.  
Department of Computer Science  
Programs in Computer Science, Computer Eng., and Computer Science and Eng. (Ph.D.)  
Dayton, OH, 45435, United States

**Degrees:** BA, BS, BS CE, MS, PHD

**Contact:** Prof. Carson, Howard V.  
Assistant to the Chair  
(513) 873-2491

**Update:** None

**Courses:** **Software Engineering I** Software Engineering 760 G P E Y

**Textbooks:** *Classics in Software Engineering*  
by Yourdon, Edward N.  
*Software Engineering with Ada*  
by Booch, Grady

**Computers:** DEC Vax 11/750 running VMS

**Software Engineering II** Software Engineering 761 G N E Y

**Textbooks:** *Writings of the Revolution: Selected Readings on Software Engineering*  
by Yourdon, Edward N.

**Computers:** DEC Vax 11/750 running VMS

**Real-Time Software Design** Computer Engineering 431/631 B P R T

**Textbooks:** *Operating System Concepts*  
by Peterson, James, and Silberschatz, Abraham

**Computers:** DEC PDP 11/44 running RSX-11M  
LSI-11 microprocessor workstations

**Data Structures and Software Design** Computer Science 400/600 B P R T

**Textbooks:** *Fundamentals of Data Structures in Pascal*  
by Horowitz, Ellis and Sahni, Sartaj

**Computers:** DEC Vax 11/750 running VMS



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